

Fig. 1A

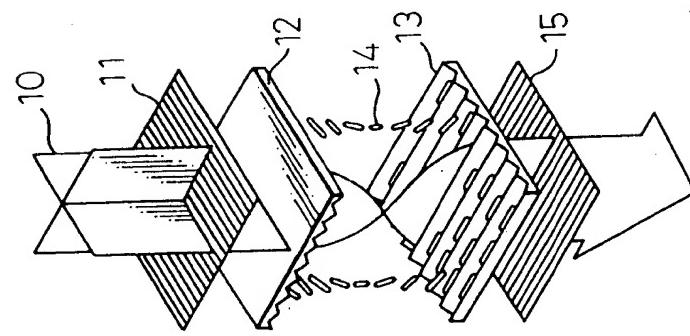
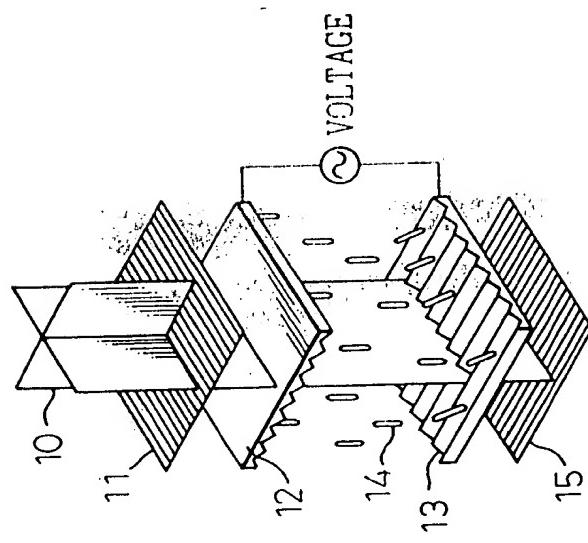


Fig. 1B



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Fig. 2A

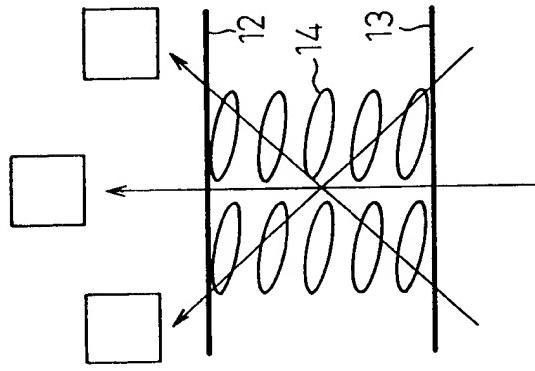


Fig. 2B

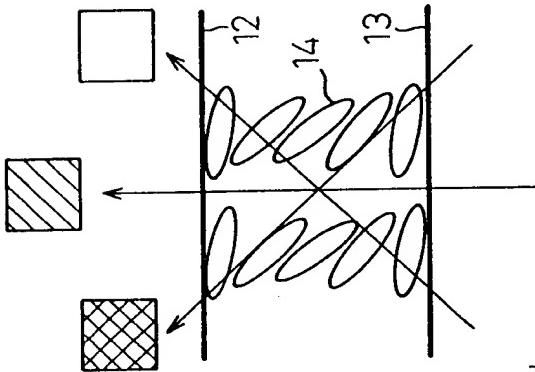
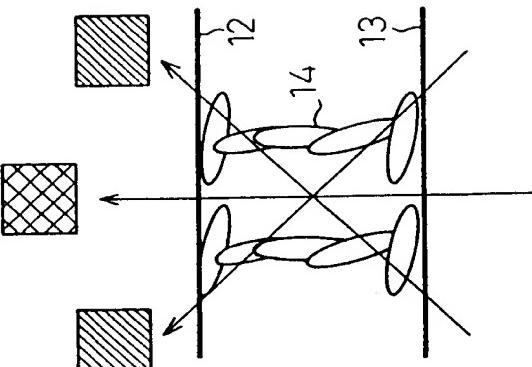


Fig. 2C



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Fig.3A

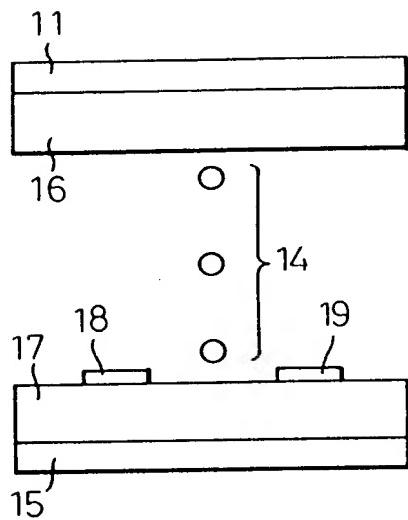


Fig.3C

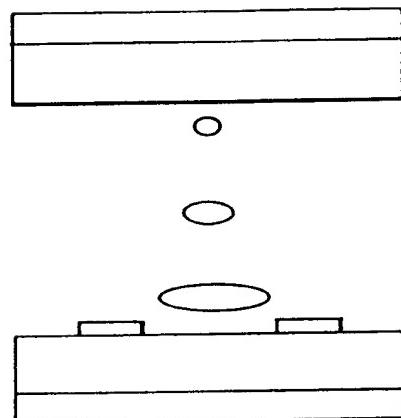


Fig.3B

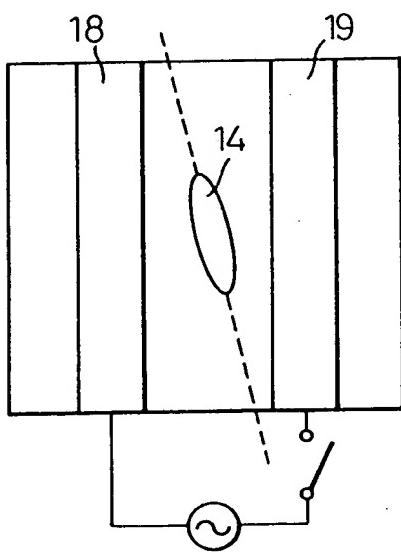
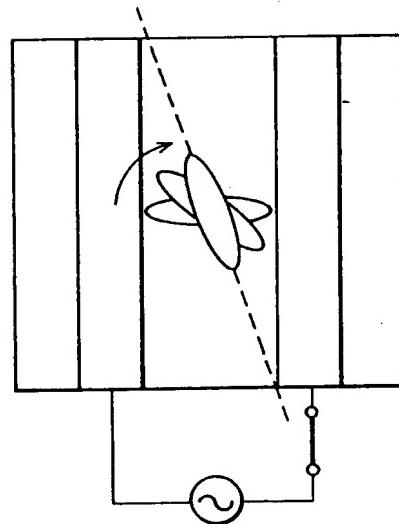
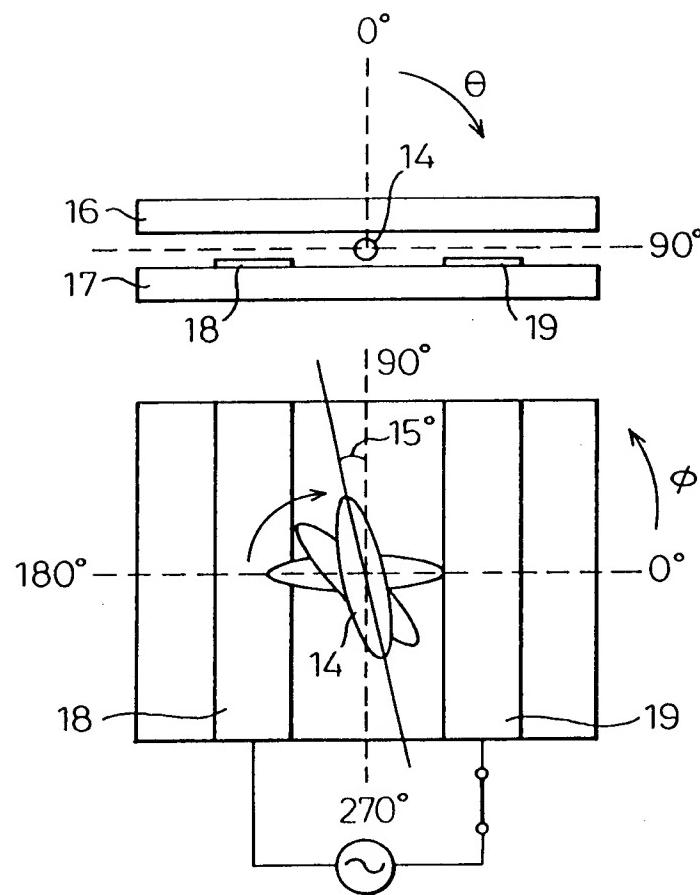


Fig.3D



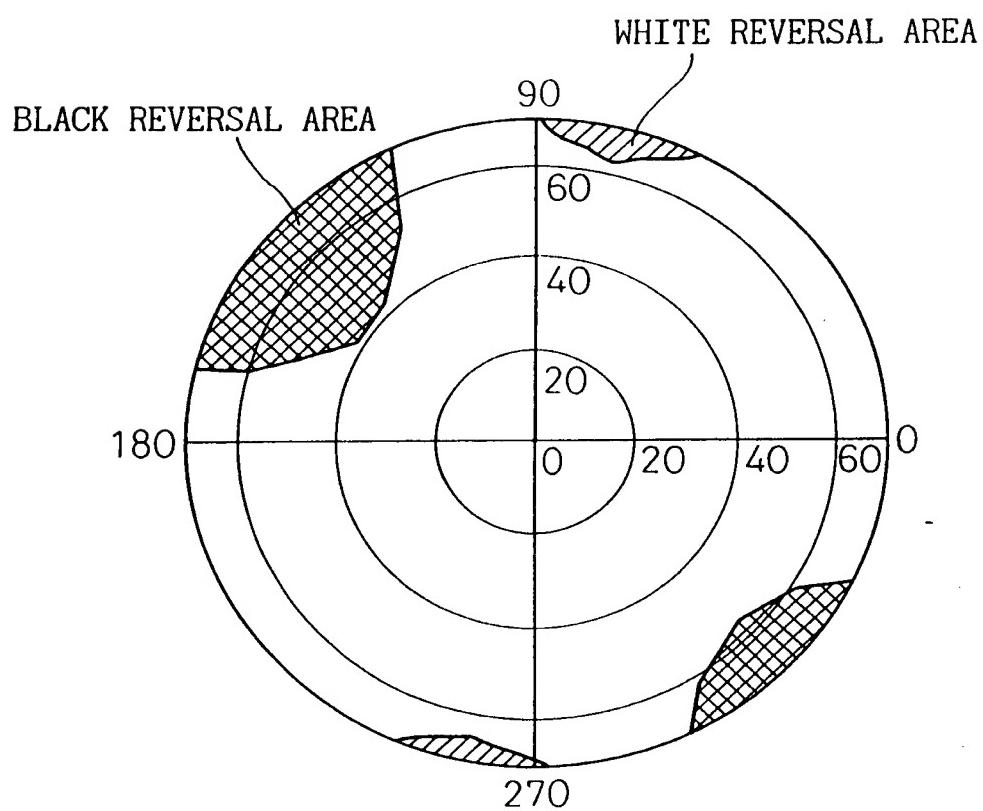
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Fig. 4



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Fig. 5



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Fig. 6A

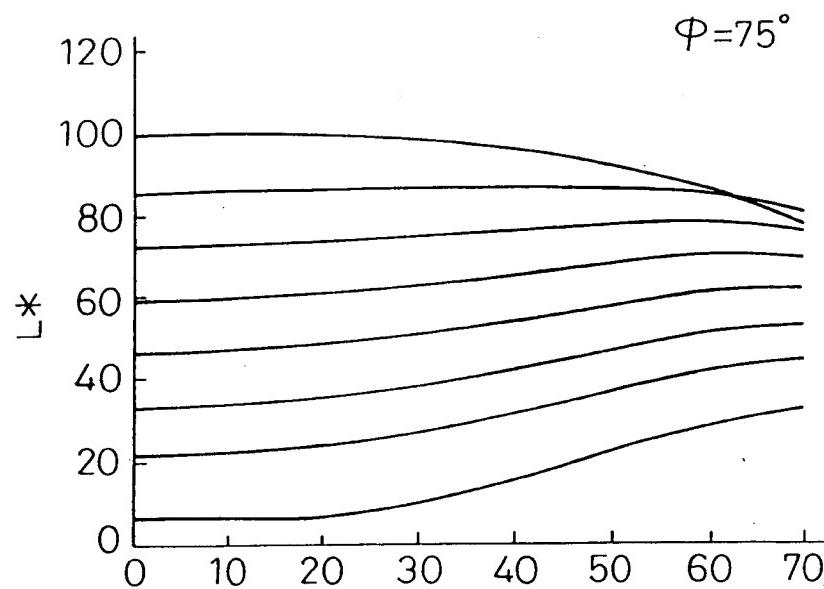


Fig. 6B

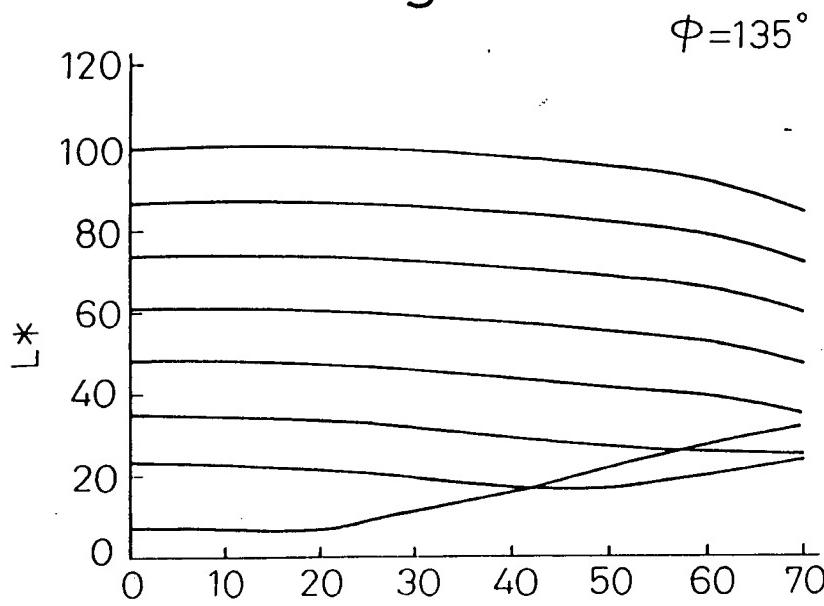


Fig. 7A

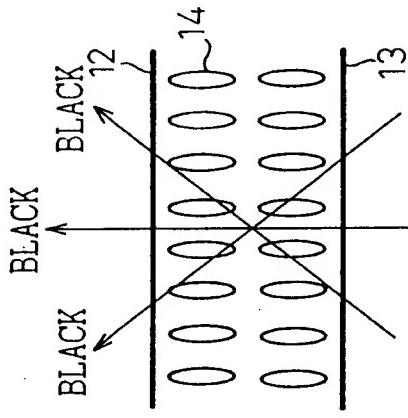


Fig. 7B

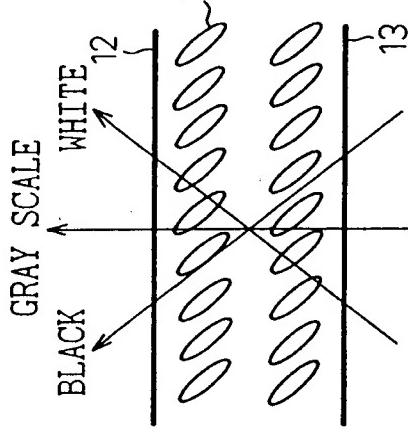
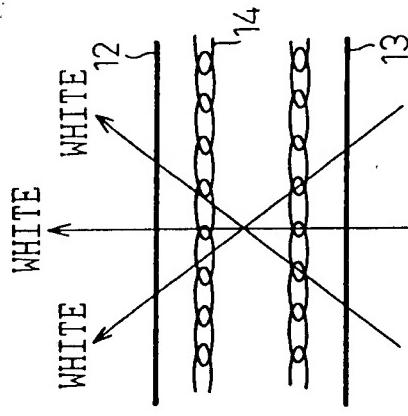


Fig. 7C



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Fig.8A

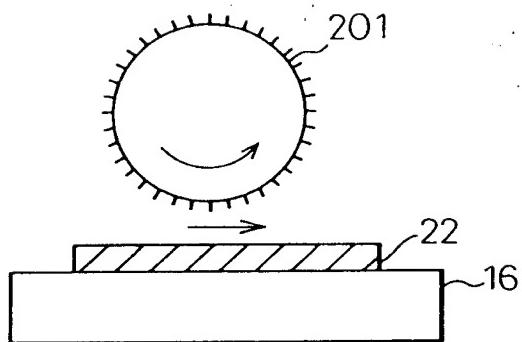


Fig.8B

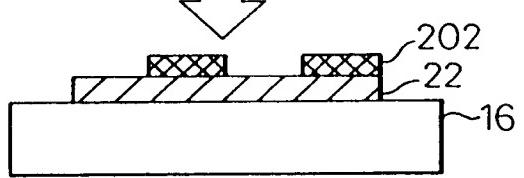


Fig.8C

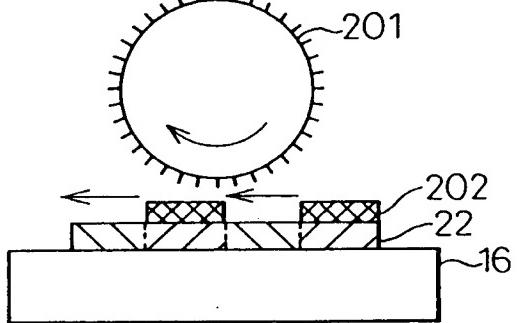


Fig. 9A

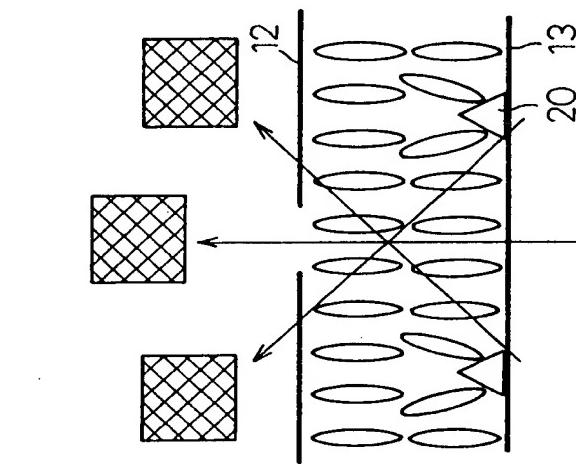


Fig. 9B

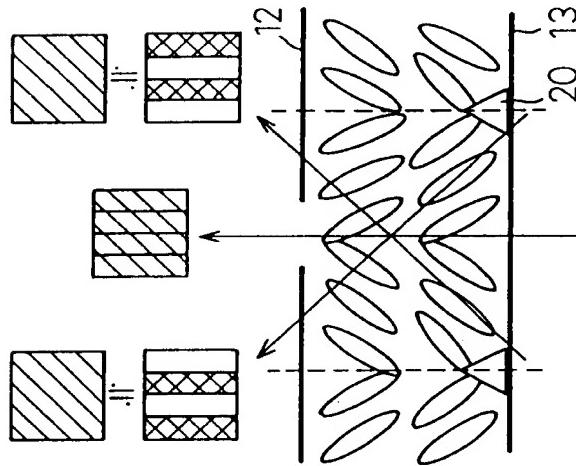
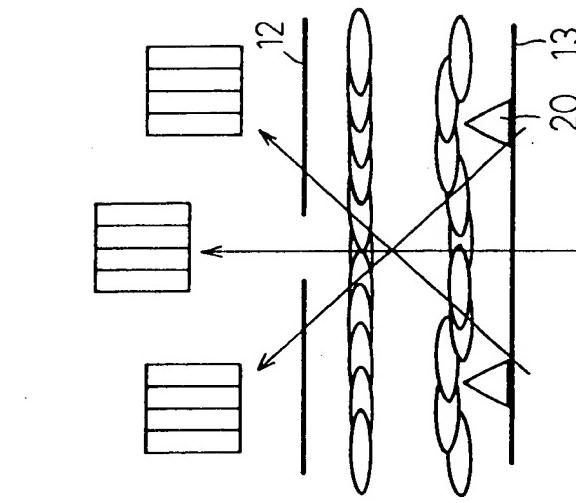


Fig. 9C



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Fig.10A

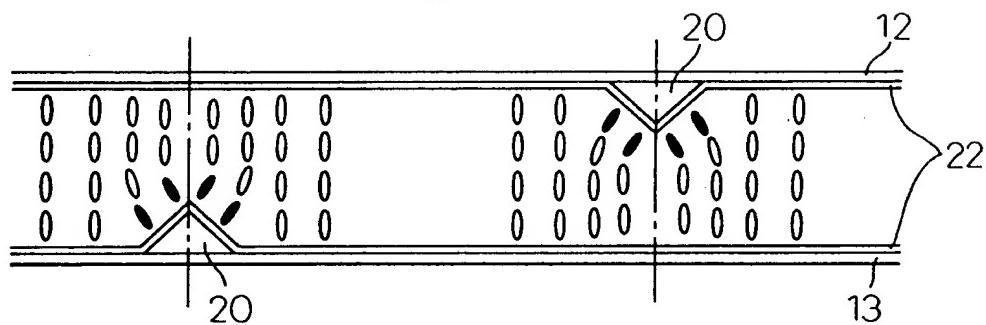


Fig.10B

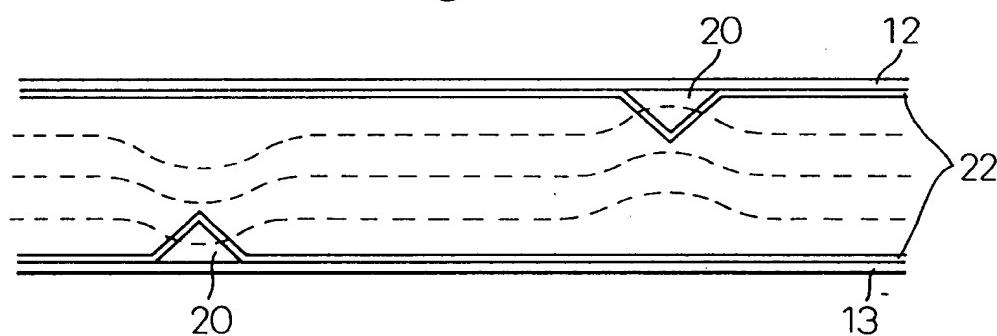
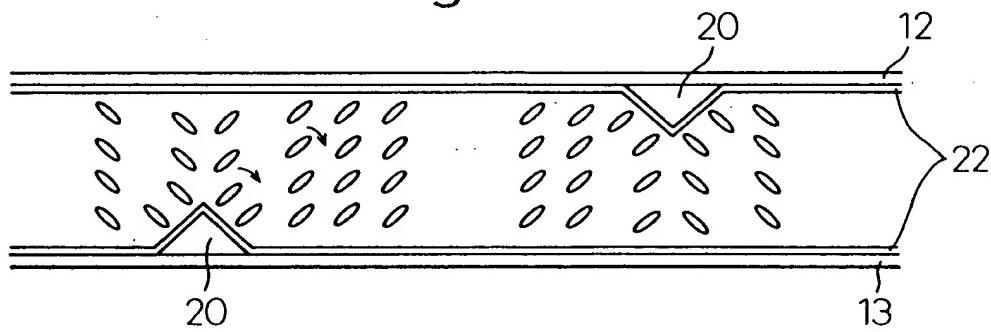


Fig.10C



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Fig.11A

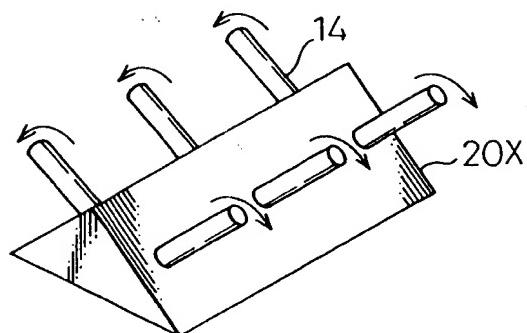


Fig.11B

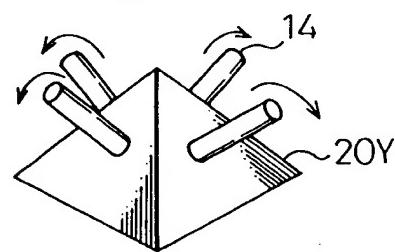
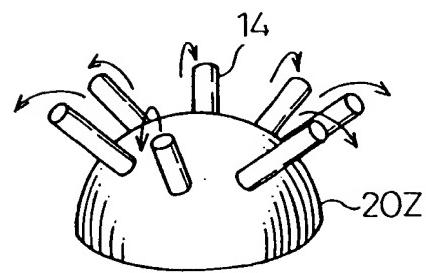


Fig.11C



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Fig.12A

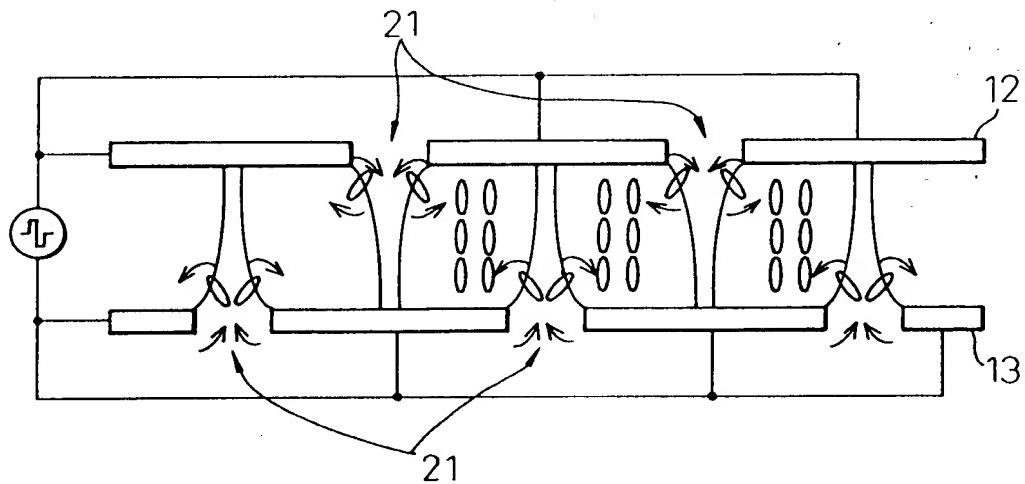


Fig.12B

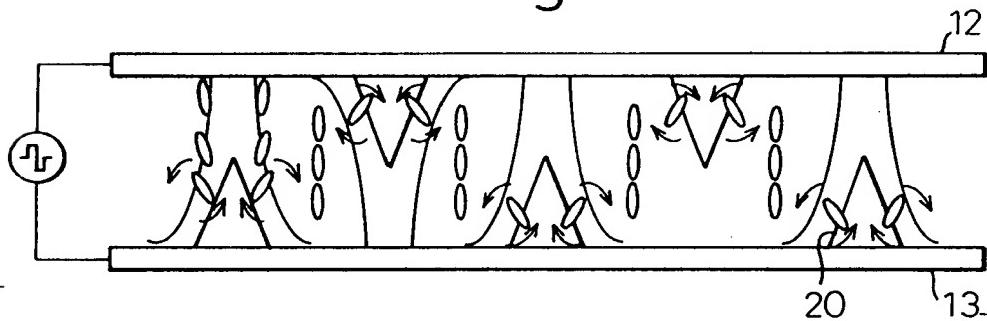
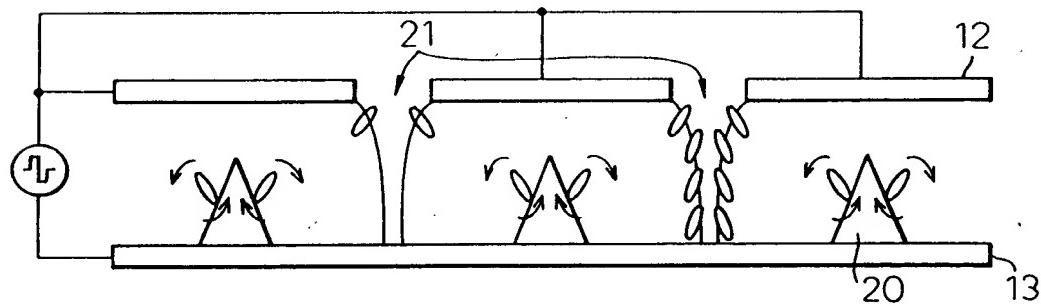
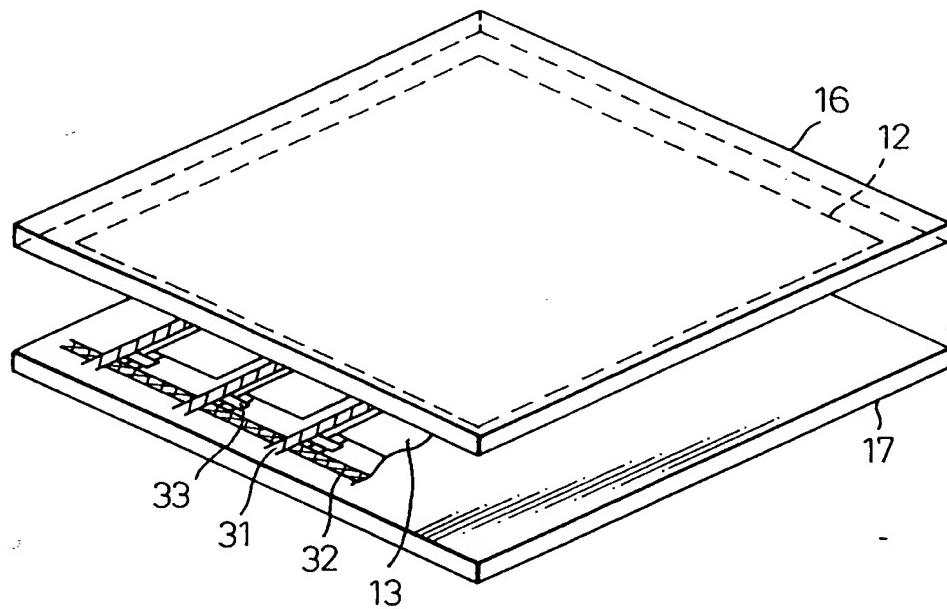


Fig.12C



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Fig.13



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Fig.14A

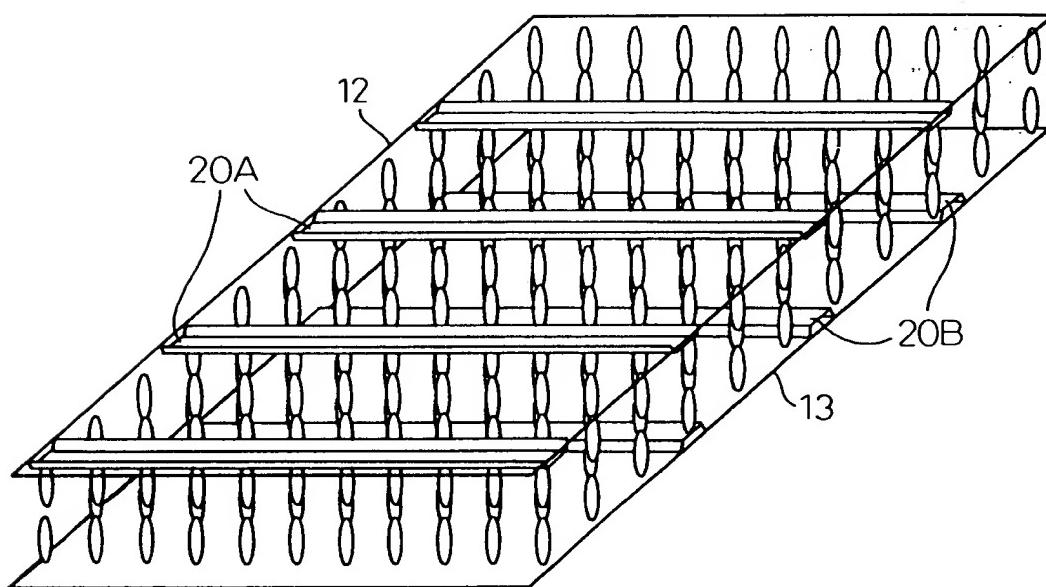
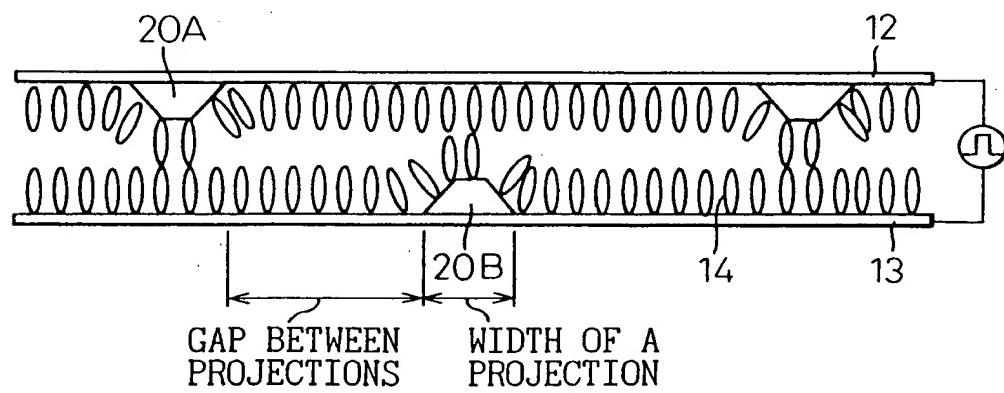
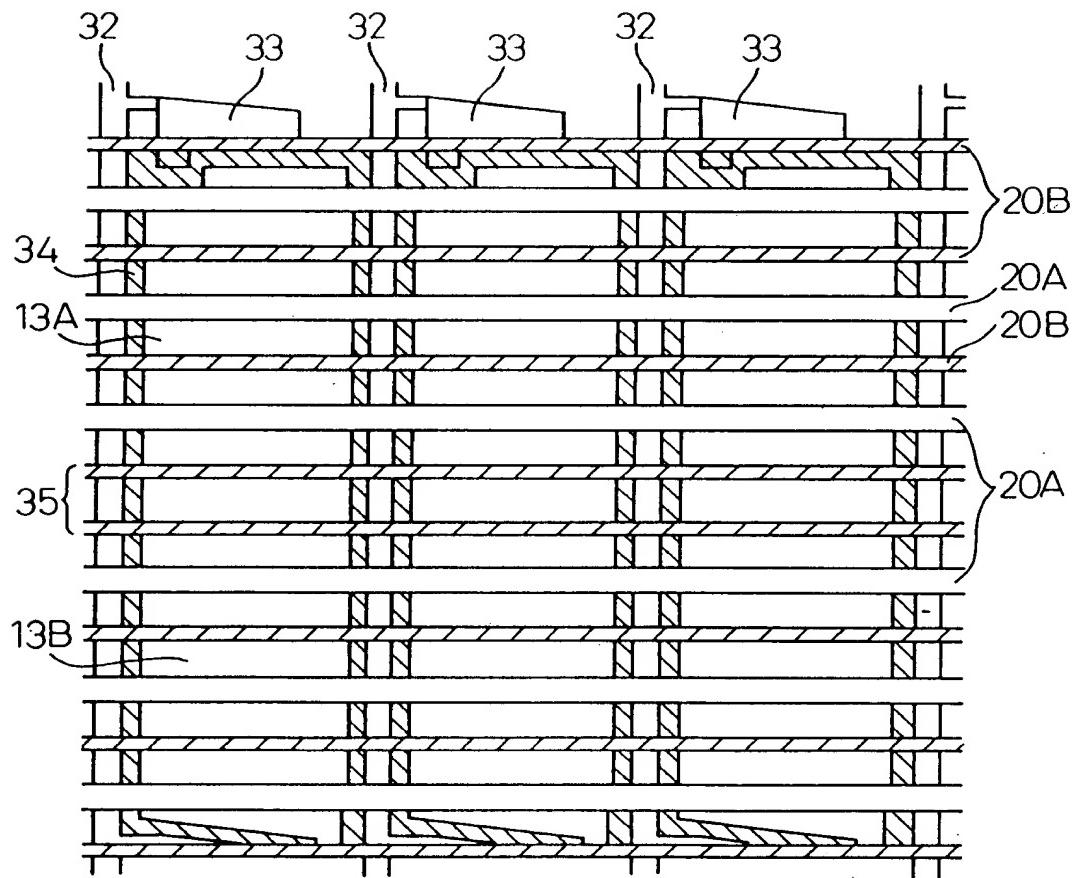


Fig.14B



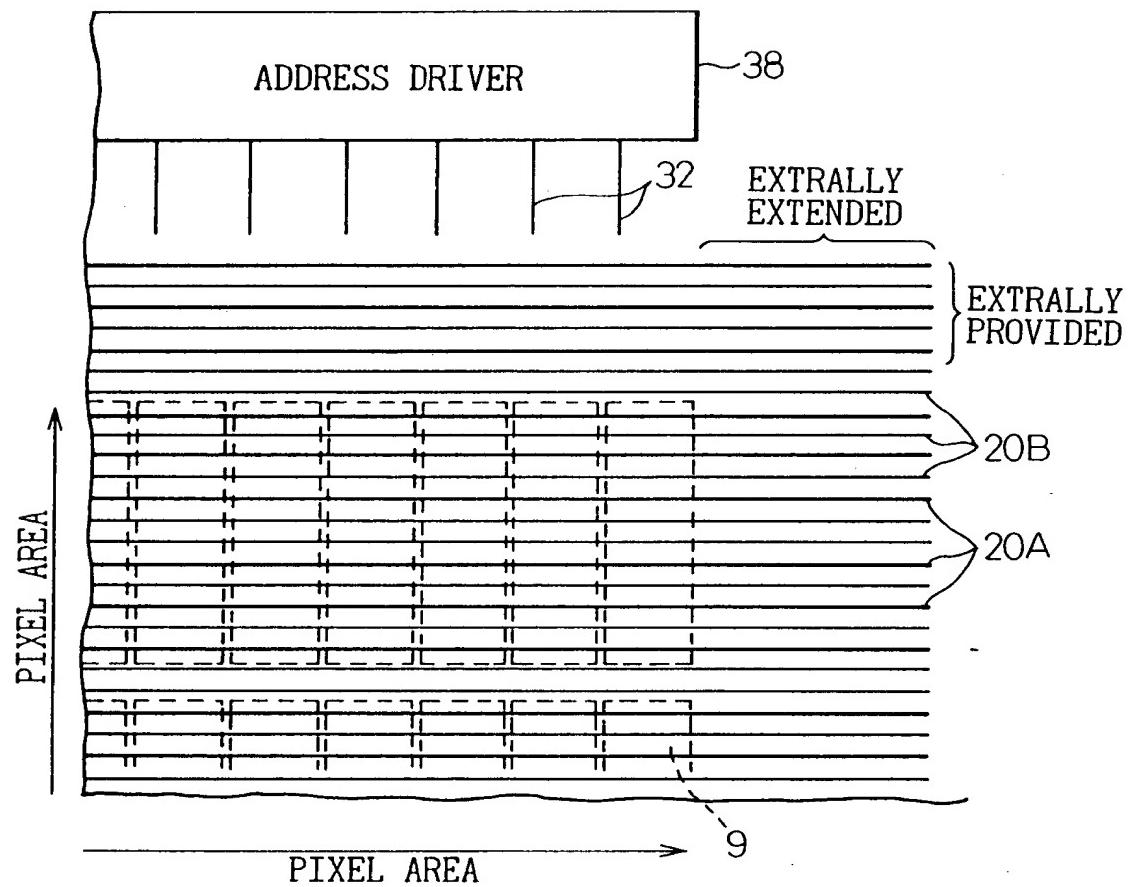
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Fig. 15.



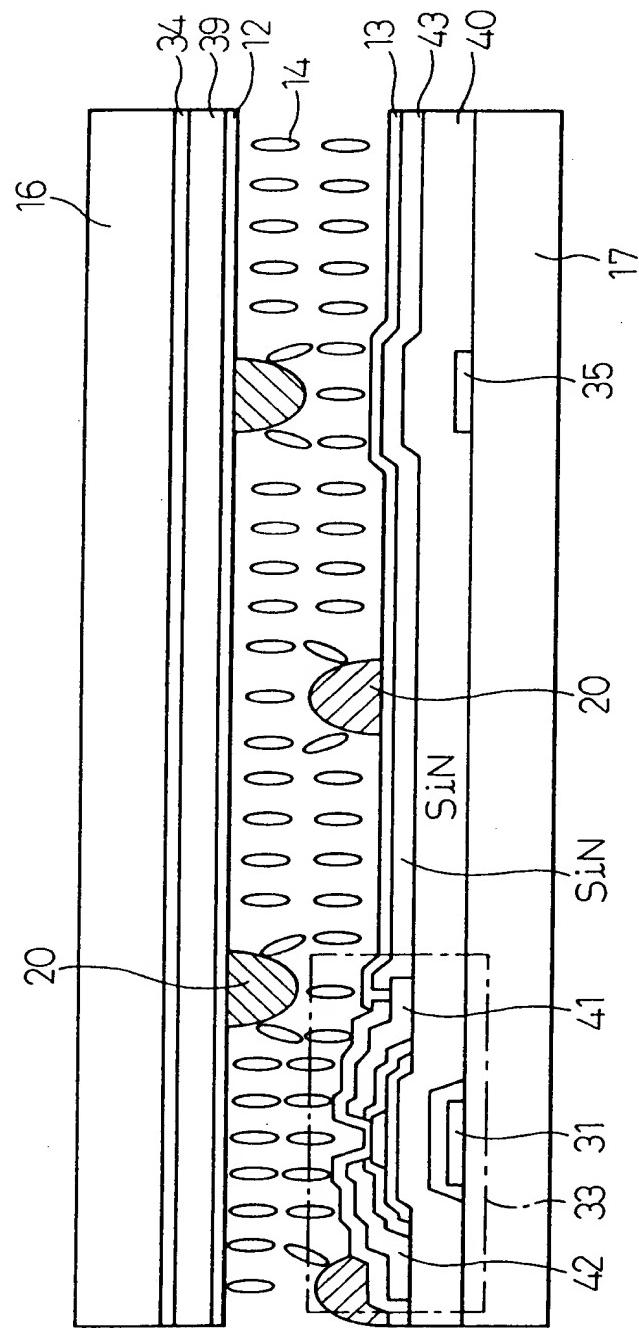
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Fig. 16



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Fig. 17



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Fig.18A

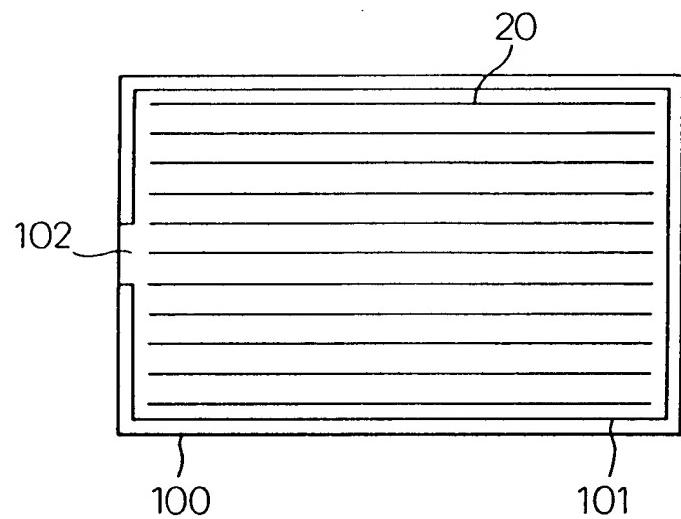
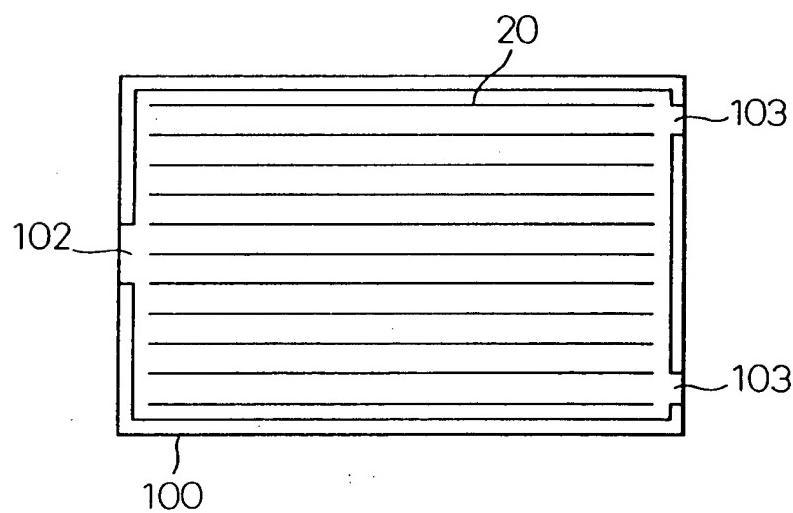
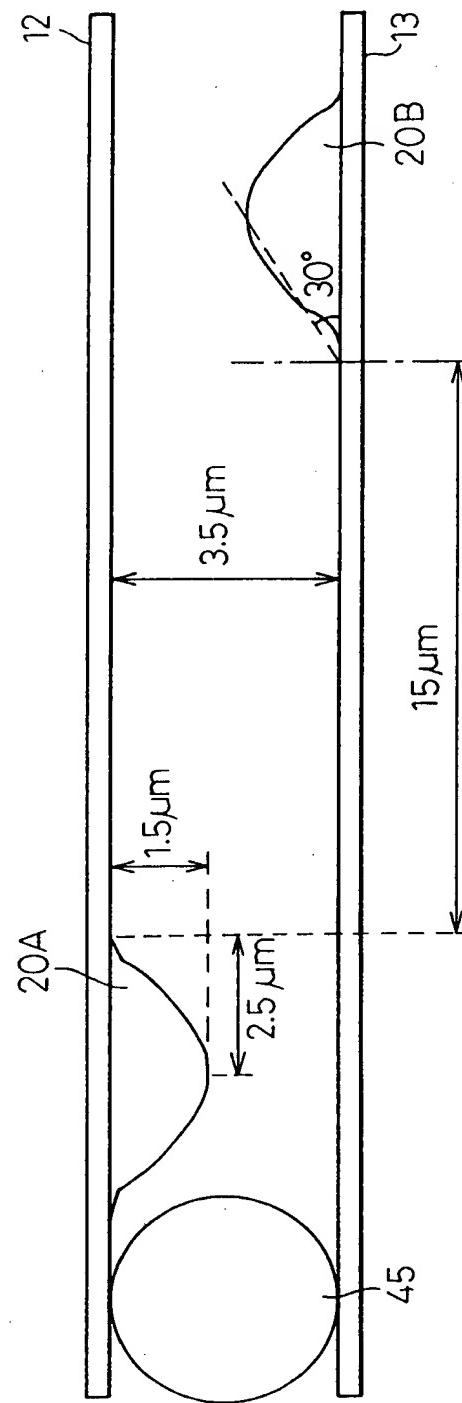


Fig.18B

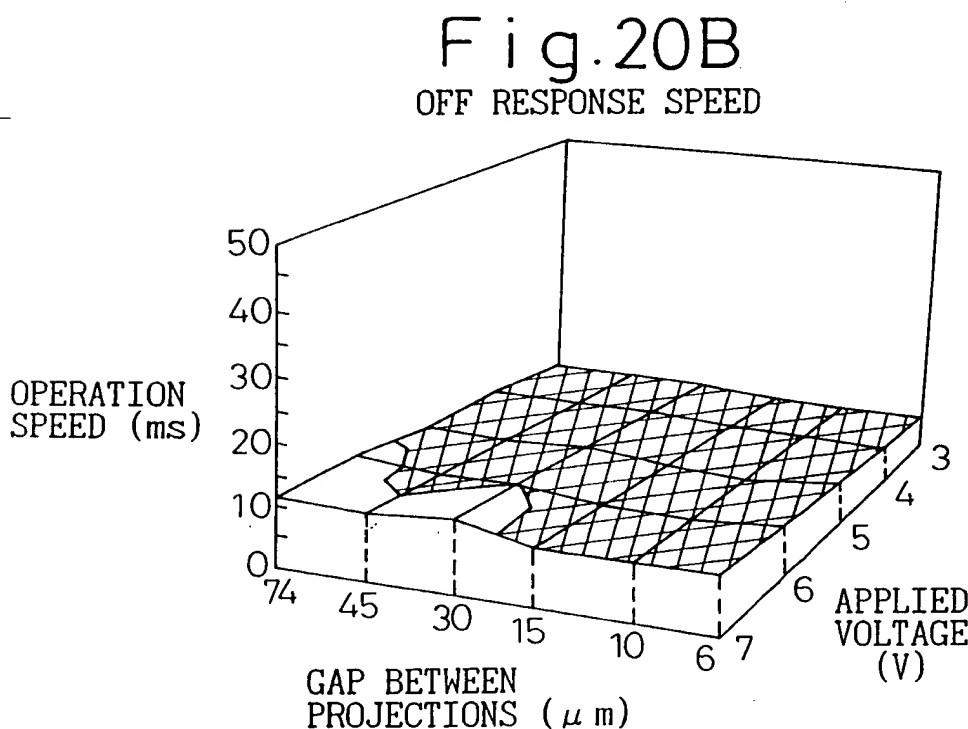
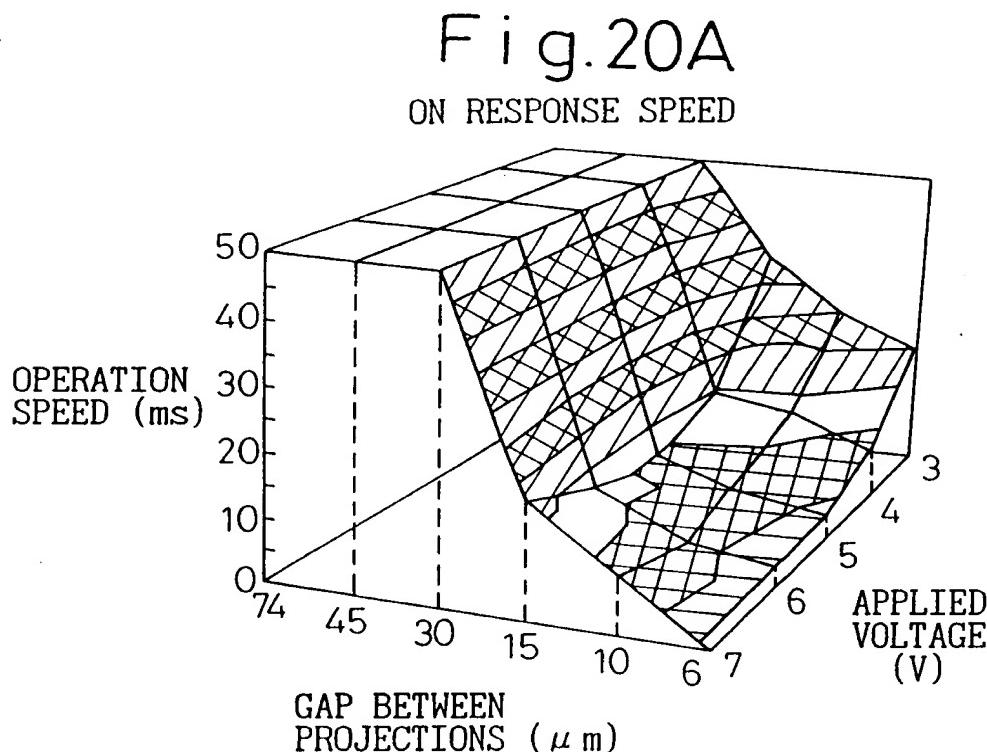


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Fig. 19

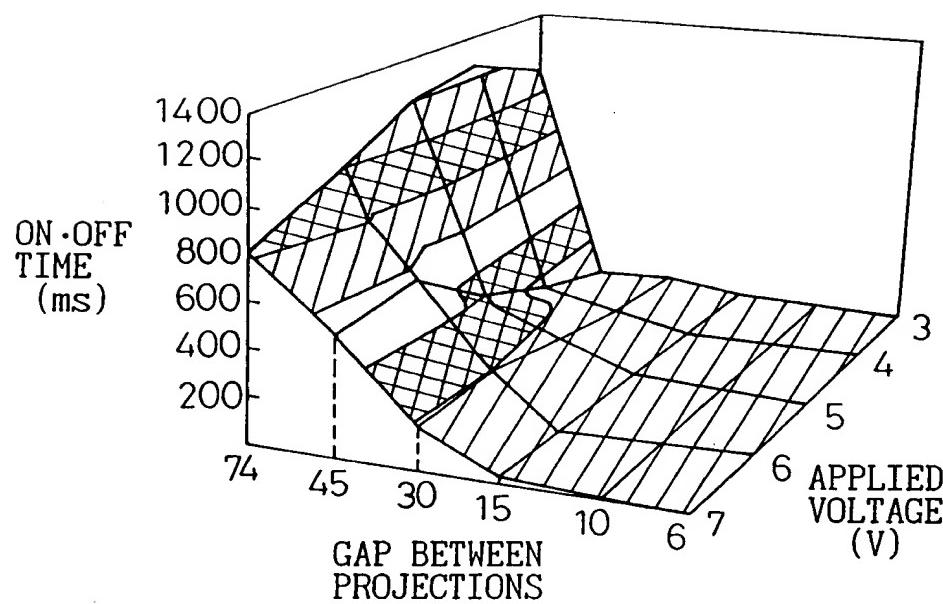


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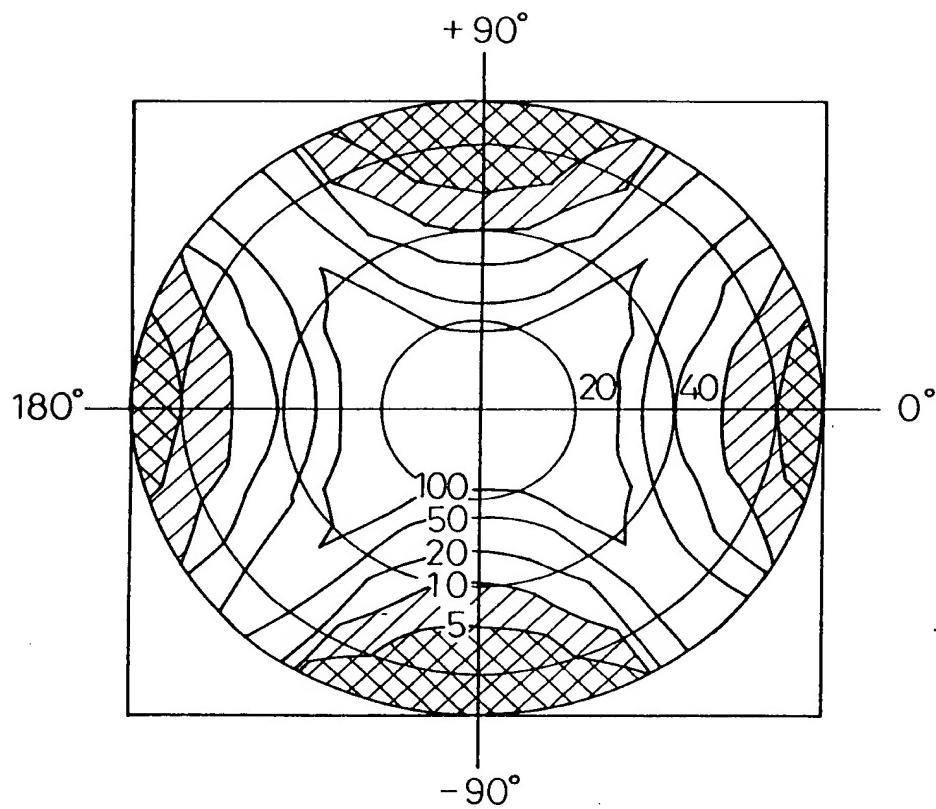
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Fig. 21



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Fig. 22



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Fig. 23A

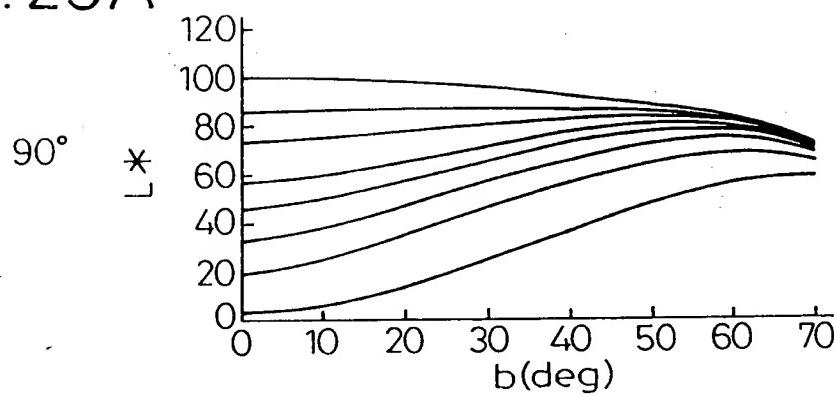


Fig. 23B

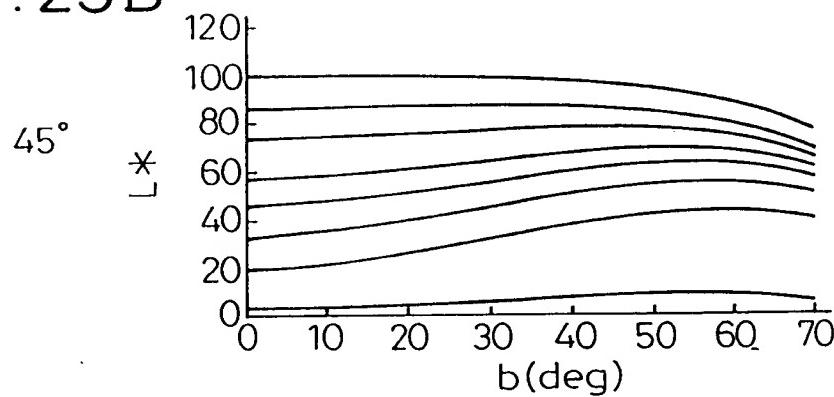
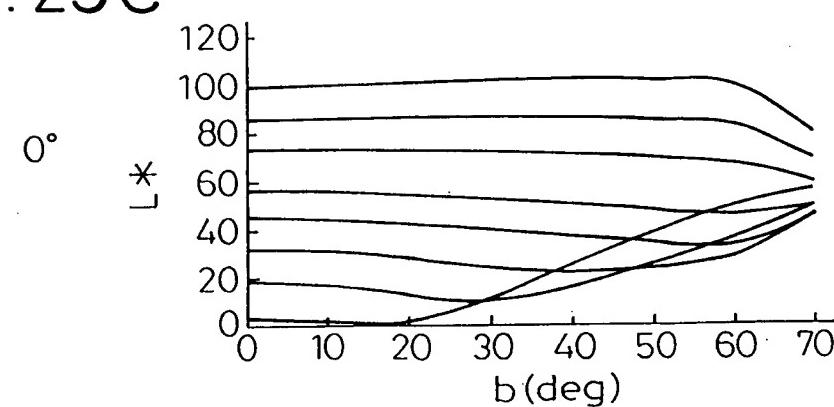


Fig. 23C



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Fig. 24A

-45°

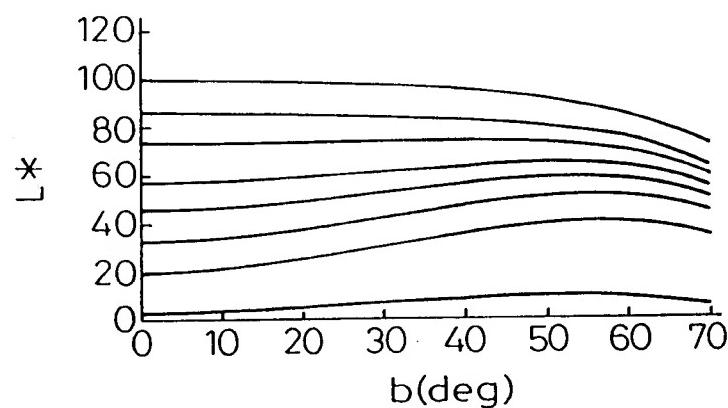
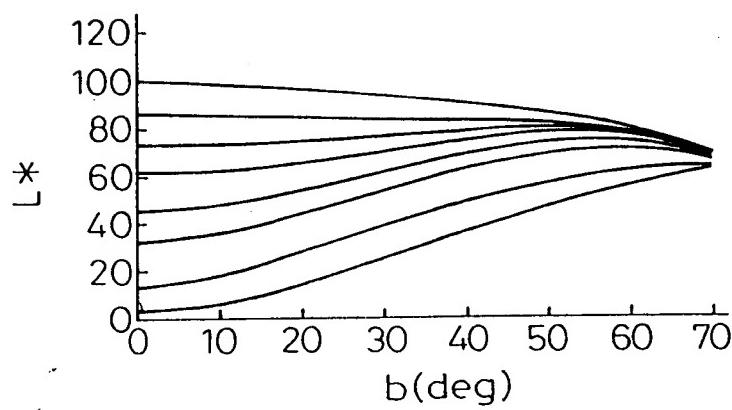


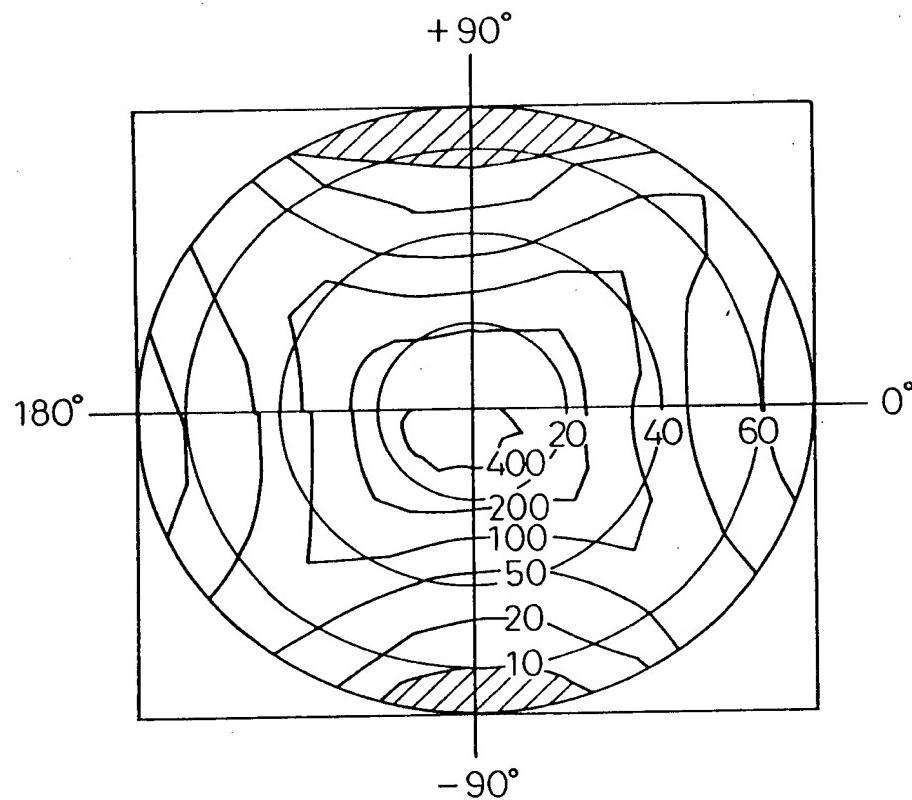
Fig. 24B

-90°



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Fig. 25



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Fig. 26A

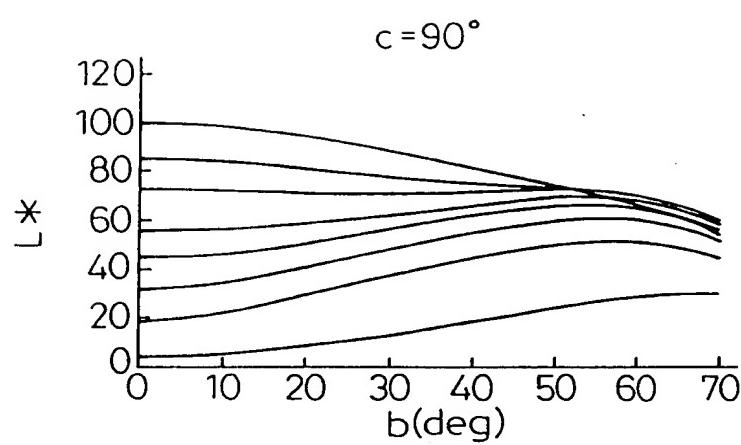


Fig. 26B

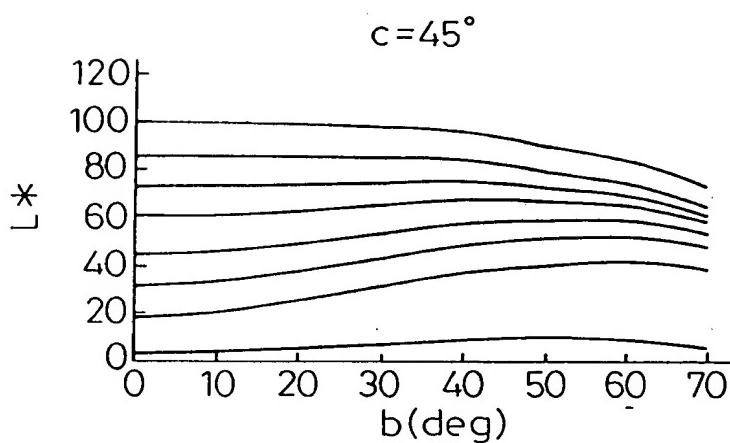
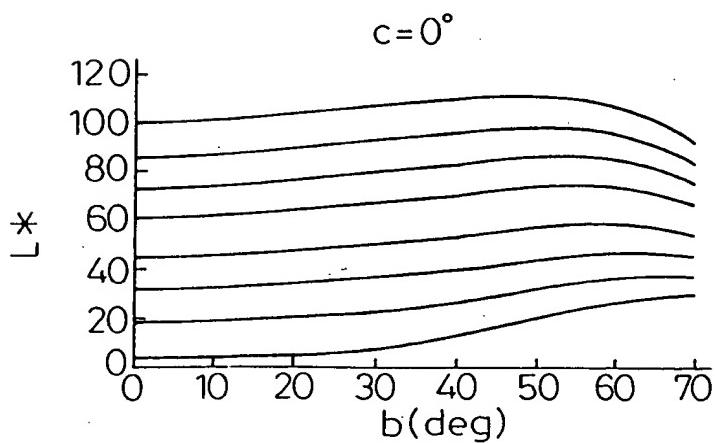


Fig. 26C



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Fig. 27

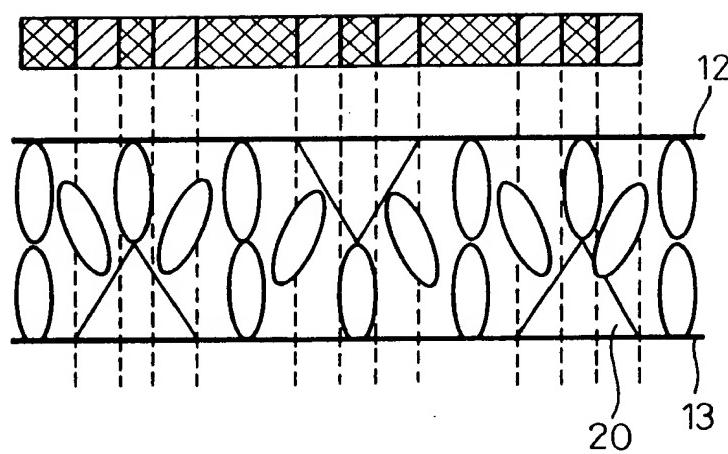
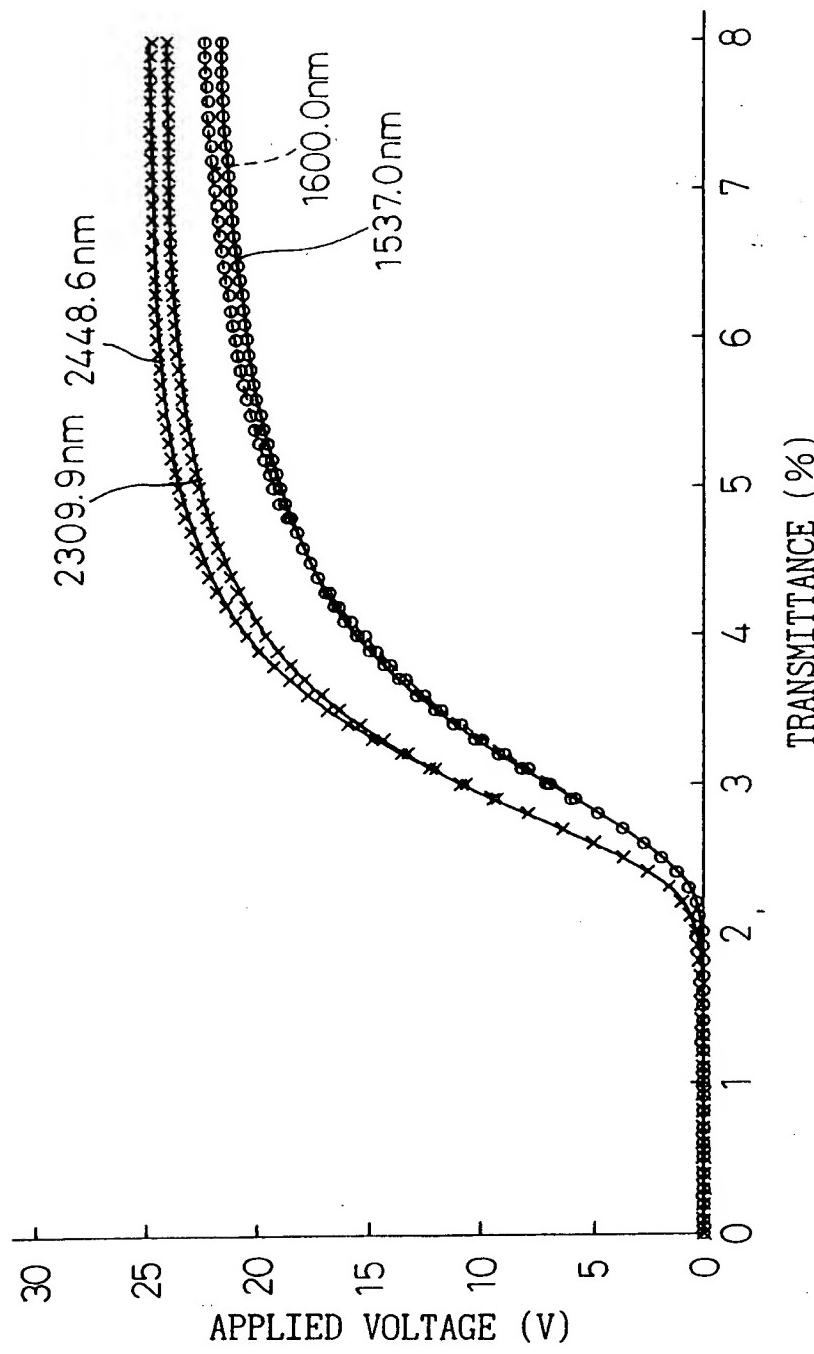
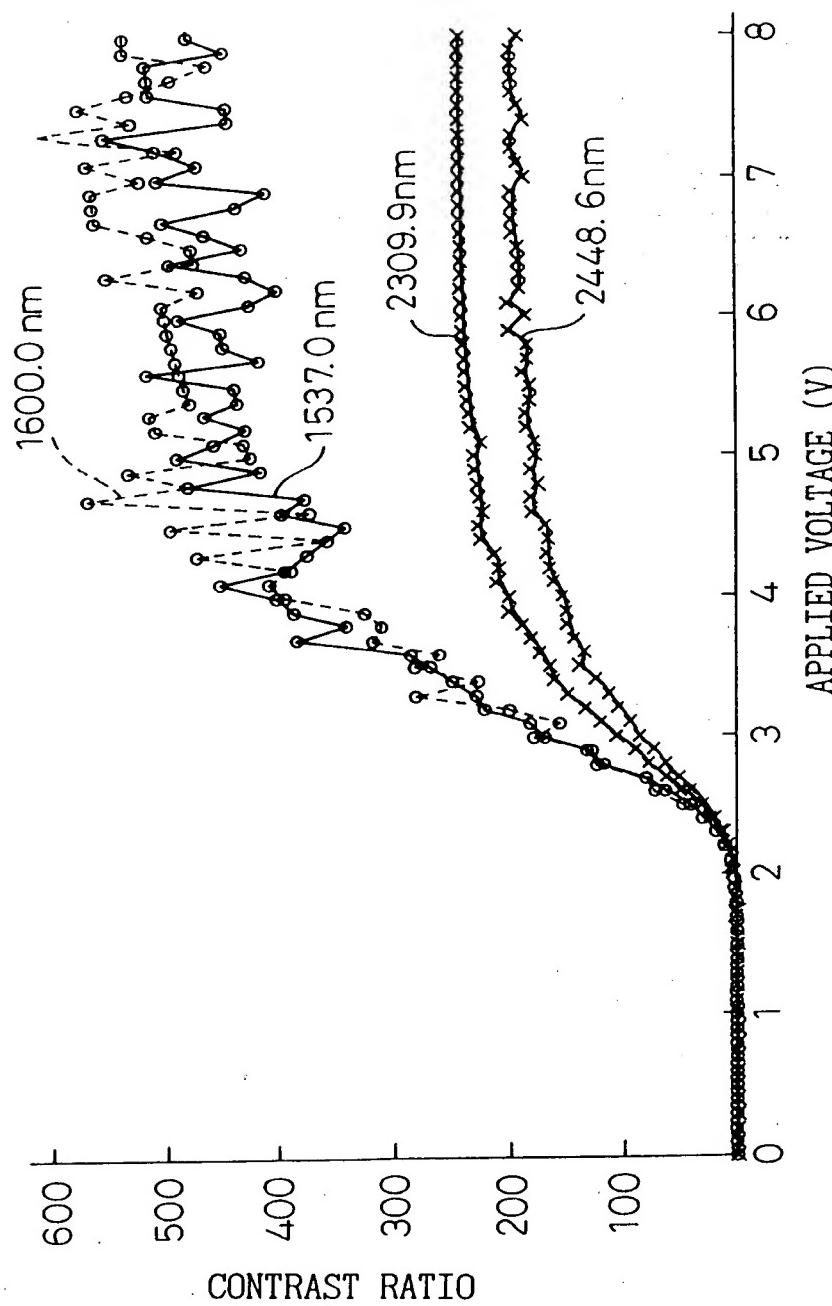


Fig. 28



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Fig. 29



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Fig.30

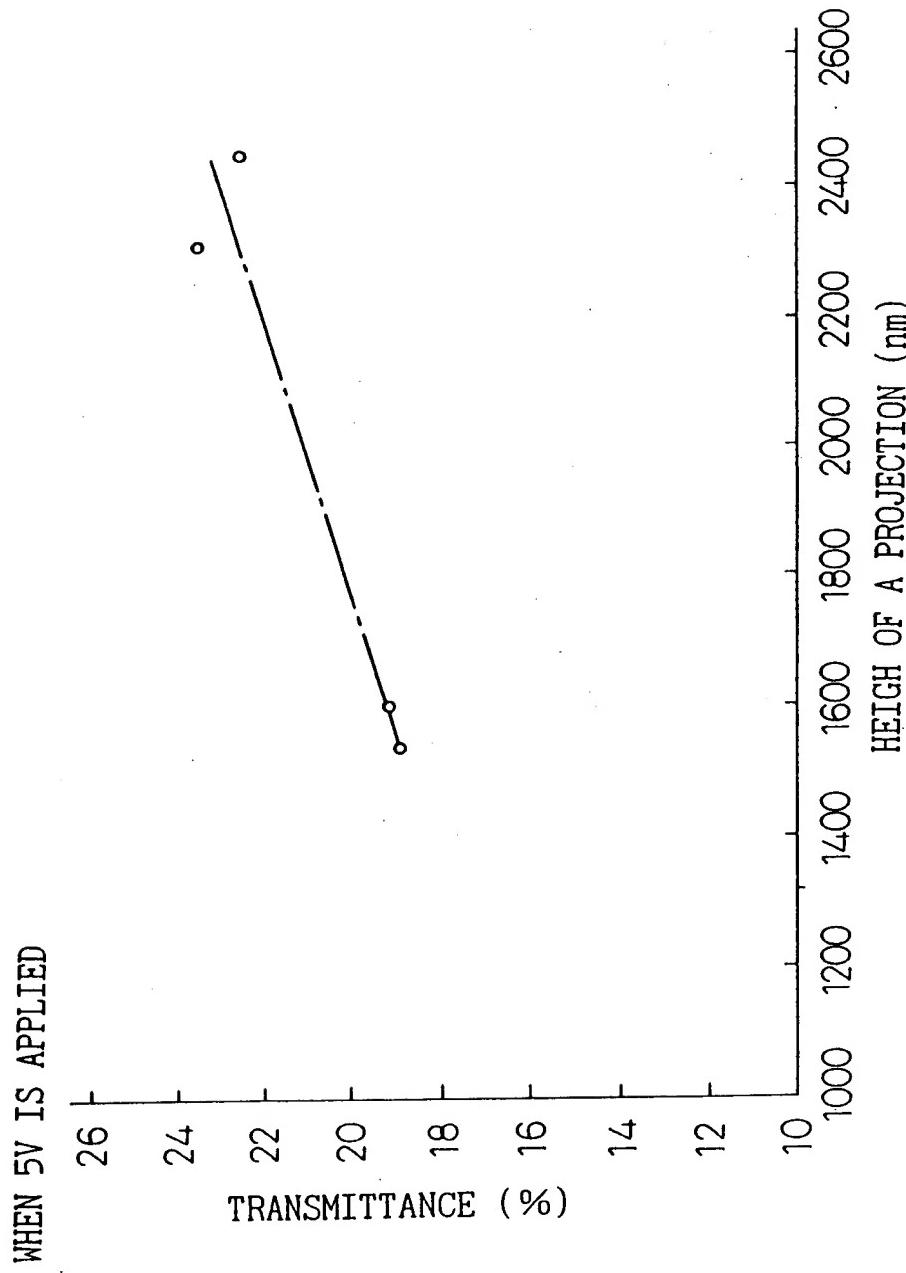
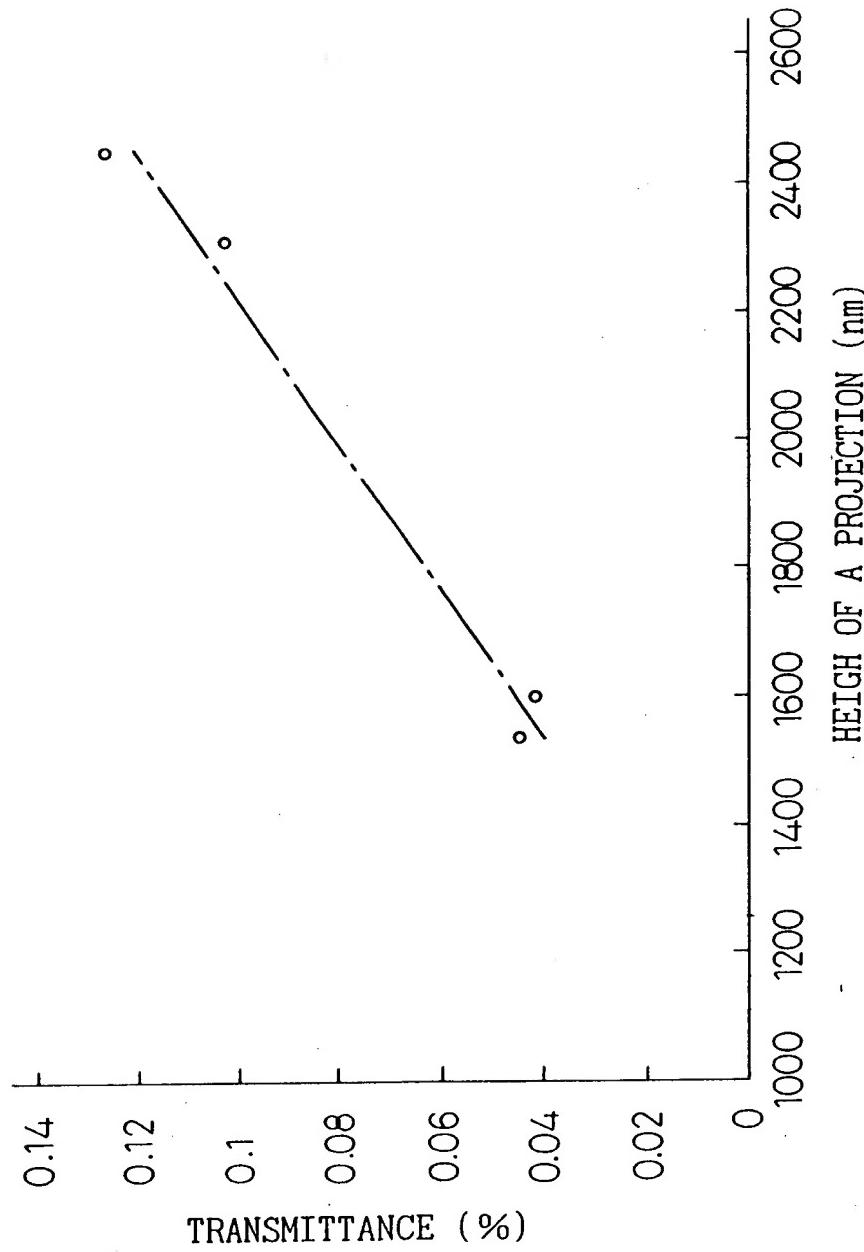


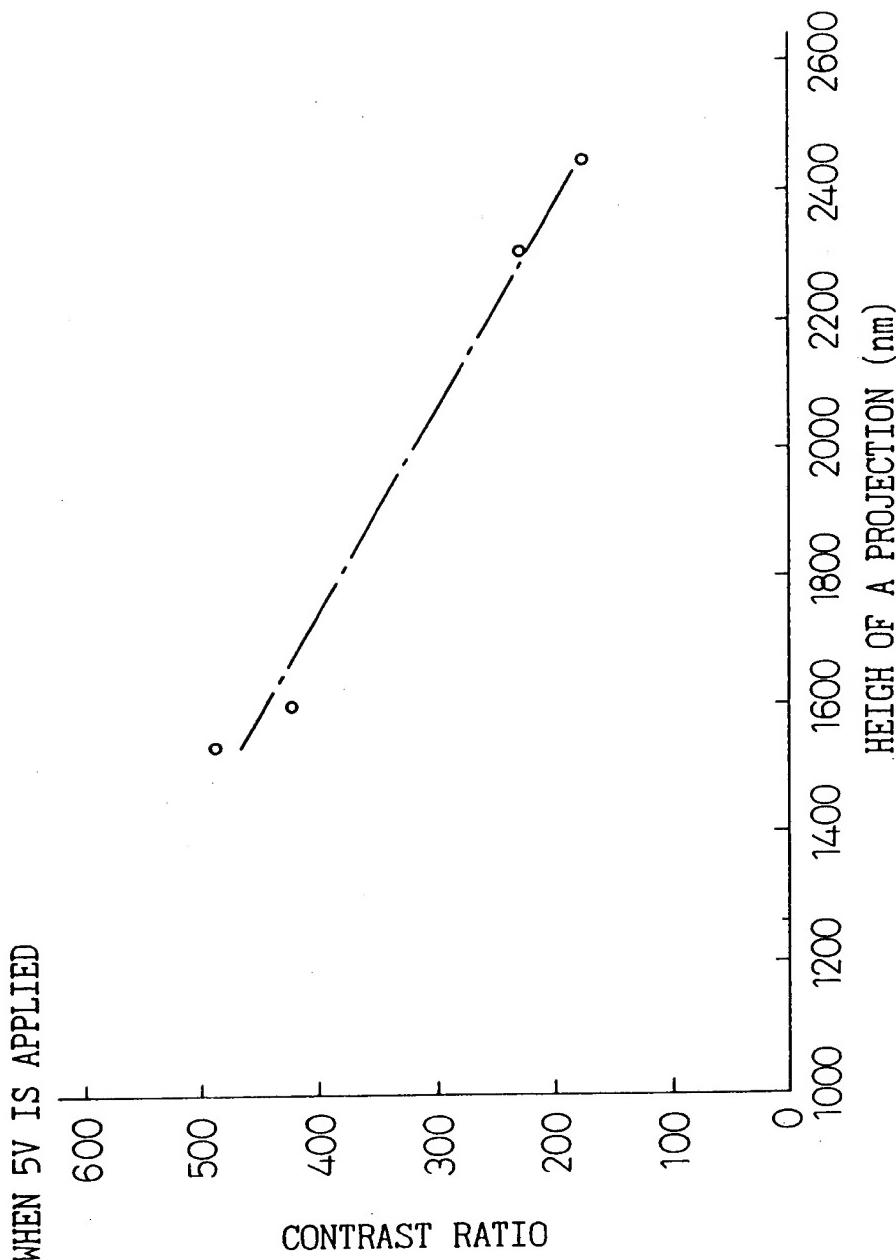
Fig. 31

WHEN NO VOLTAGE IS APPLIED



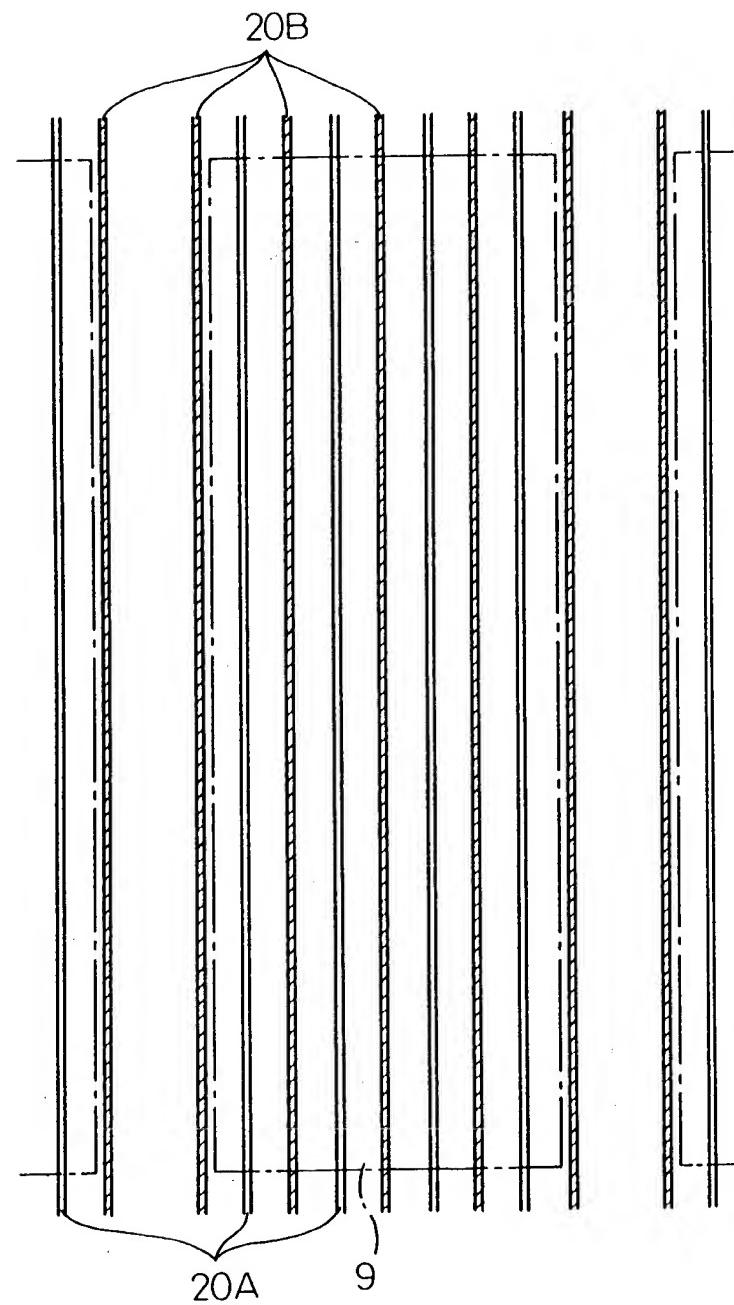
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Fig. 32



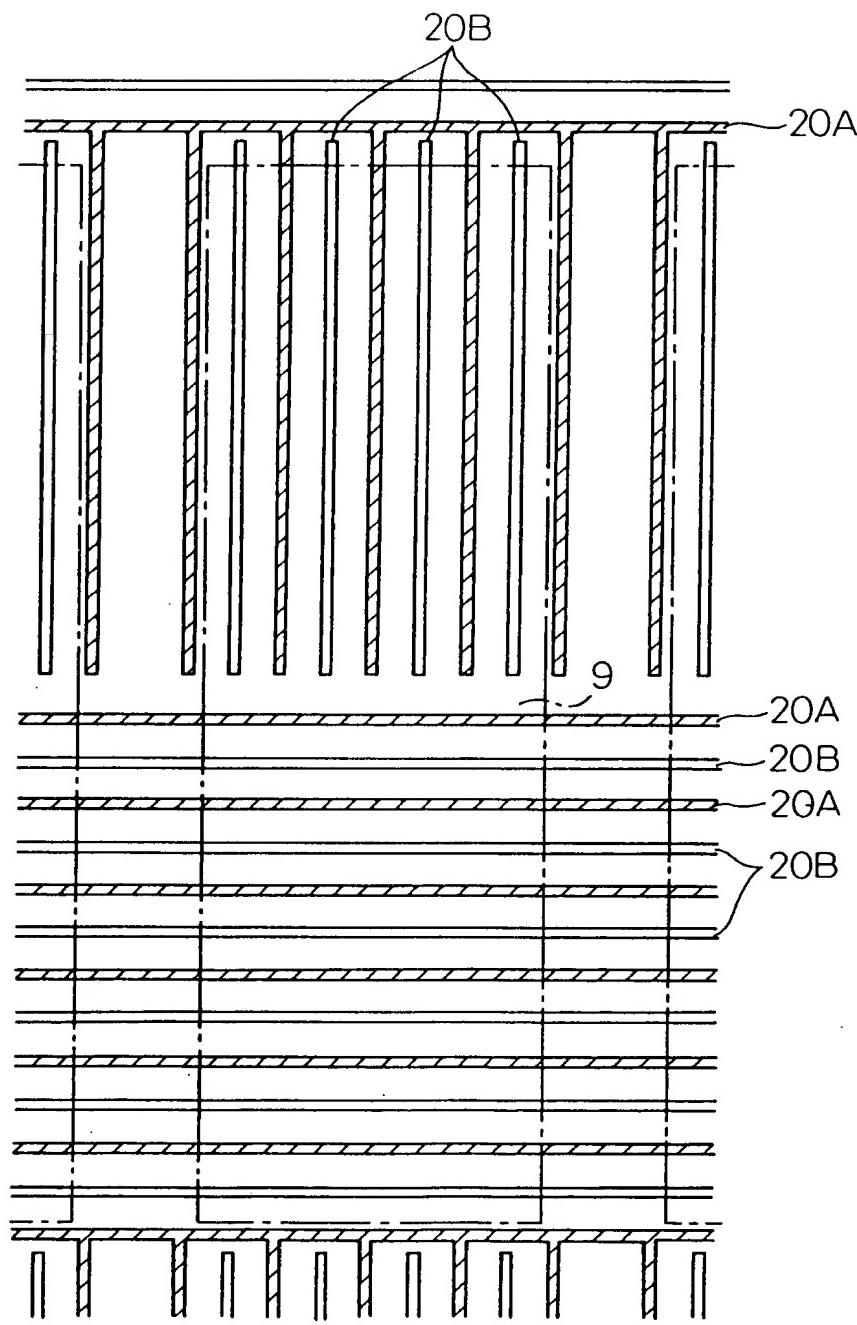
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Fig. 33



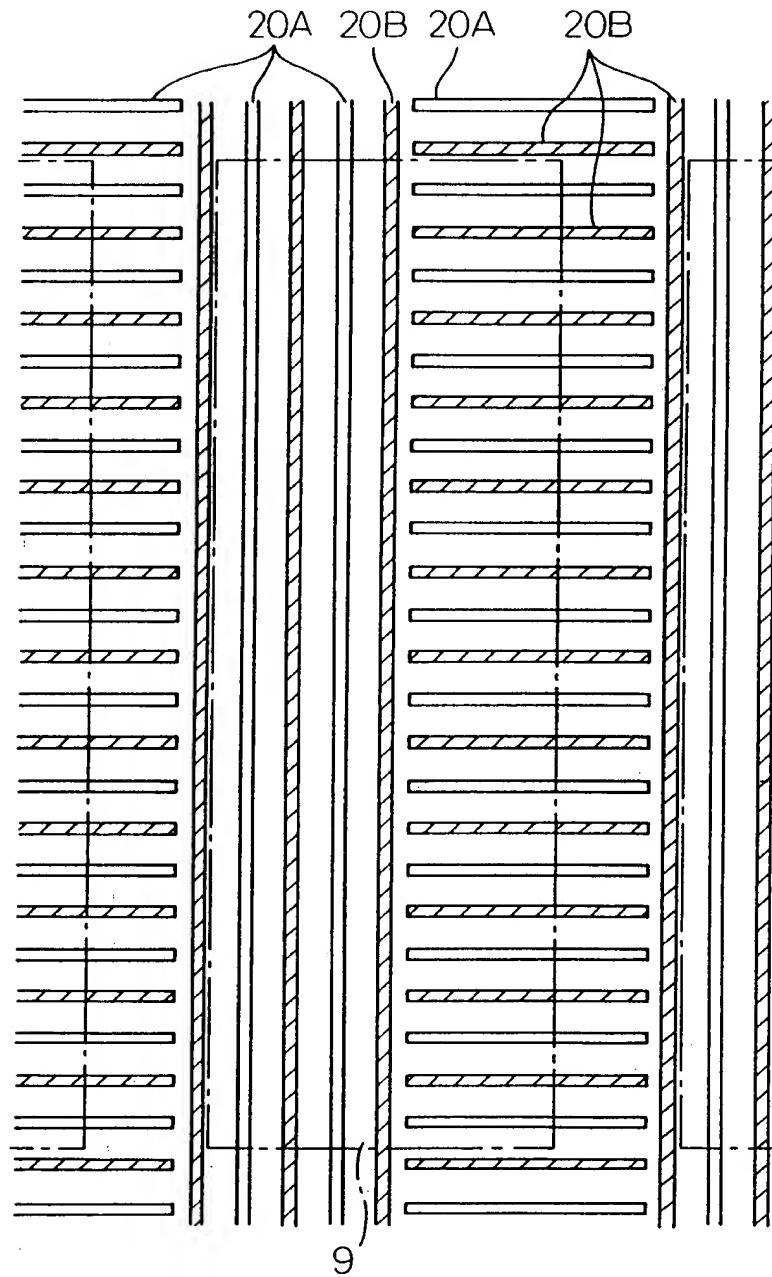
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Fig. 34



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F i g . 35



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Fig. 36

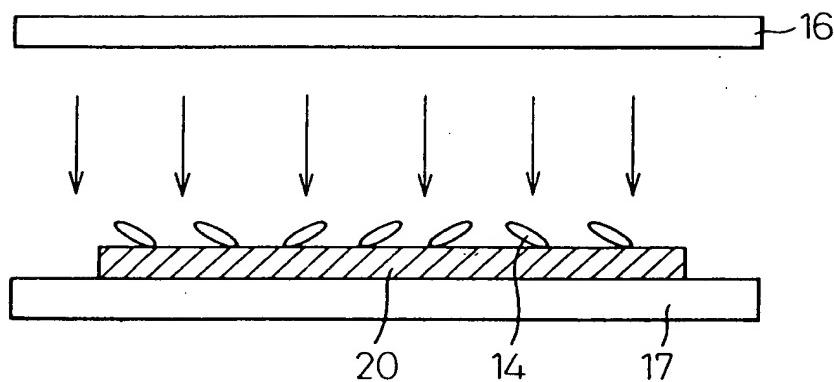


Fig. 37A

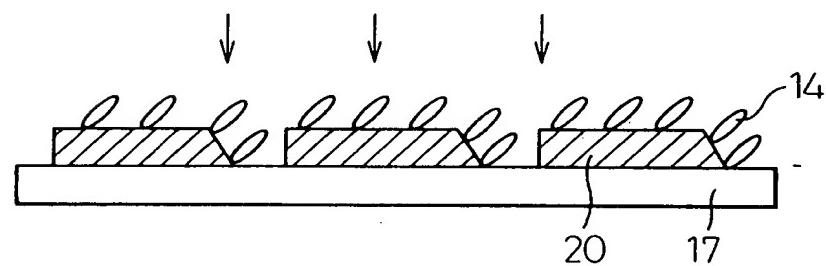
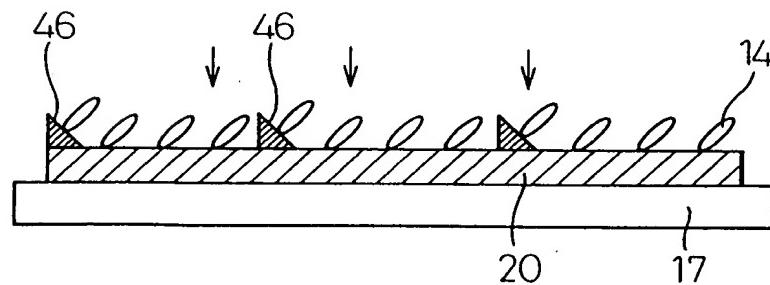


Fig. 37B



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Fig.38A

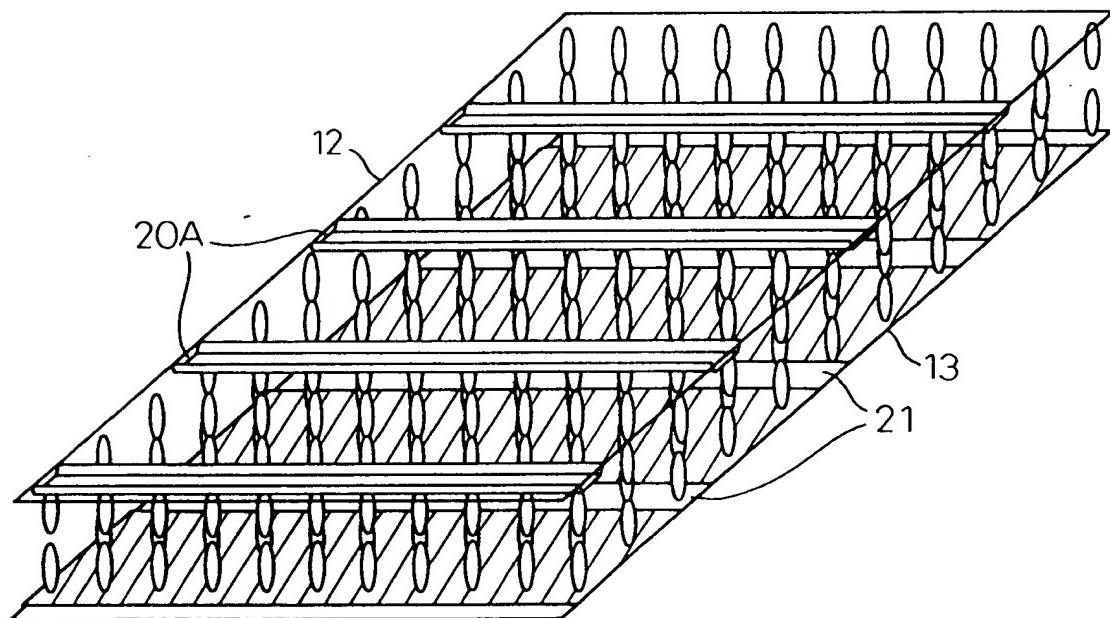
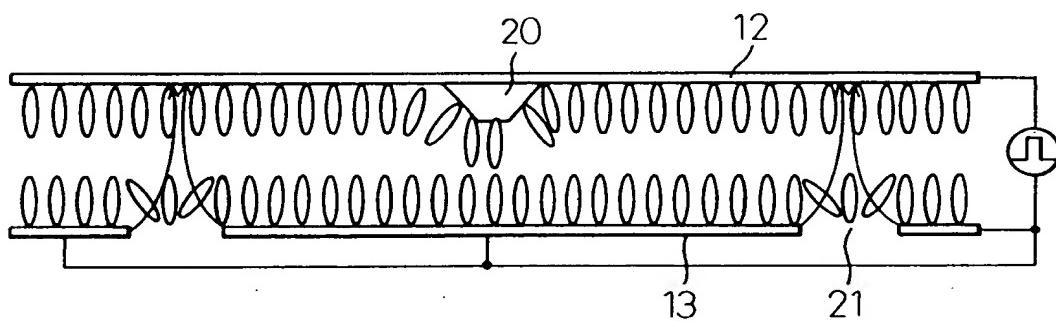
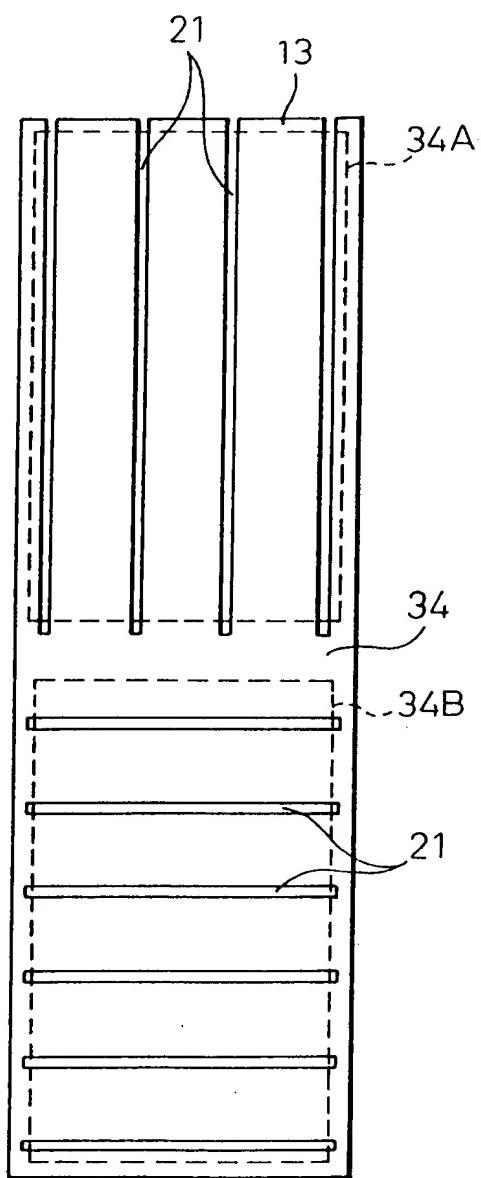


Fig.38B



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Fig.39



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Fig. 40

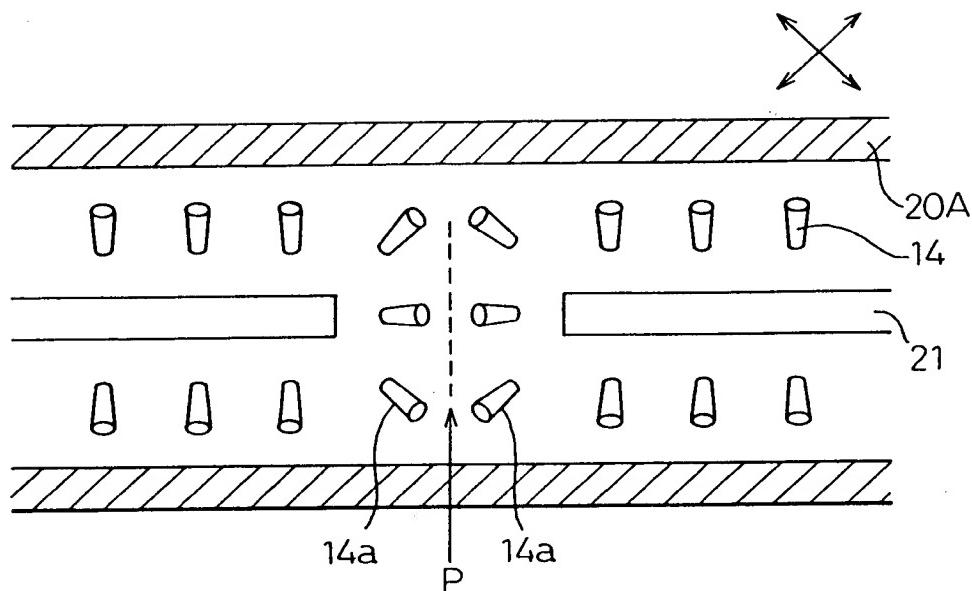
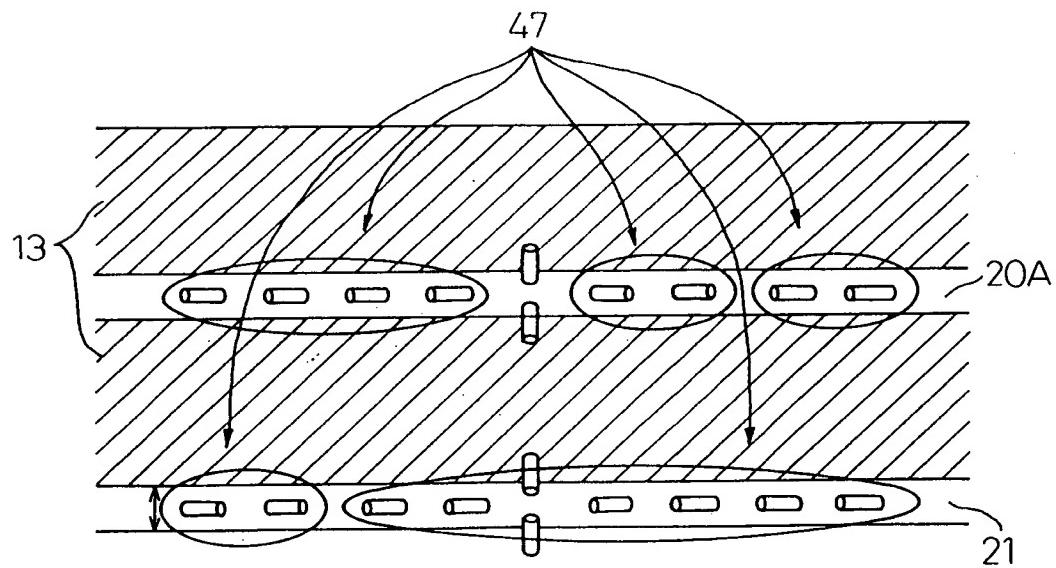
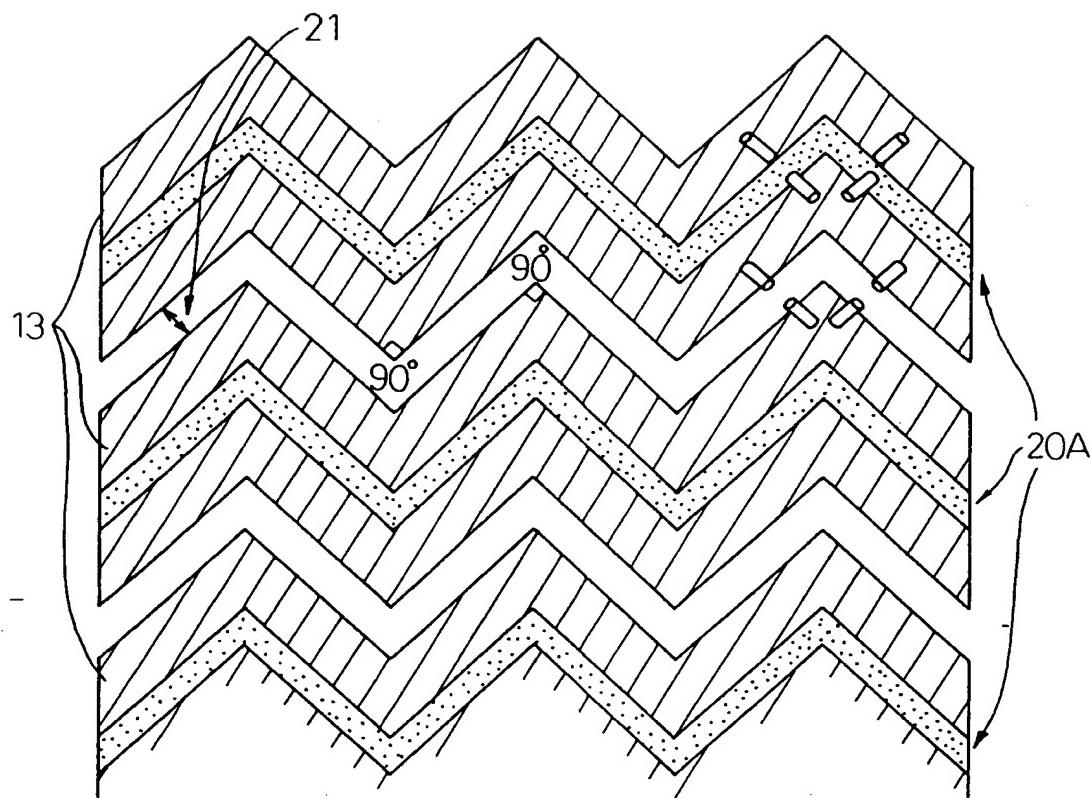


Fig. 41



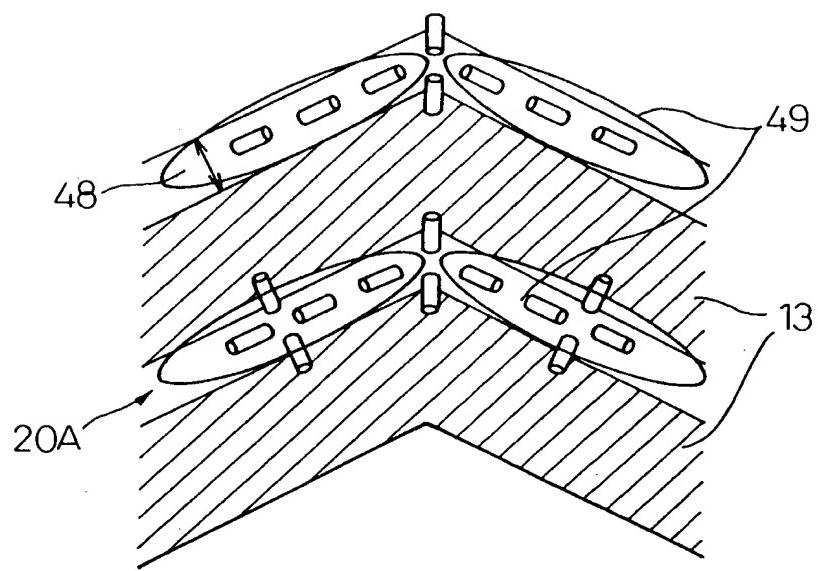
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Fig. 42



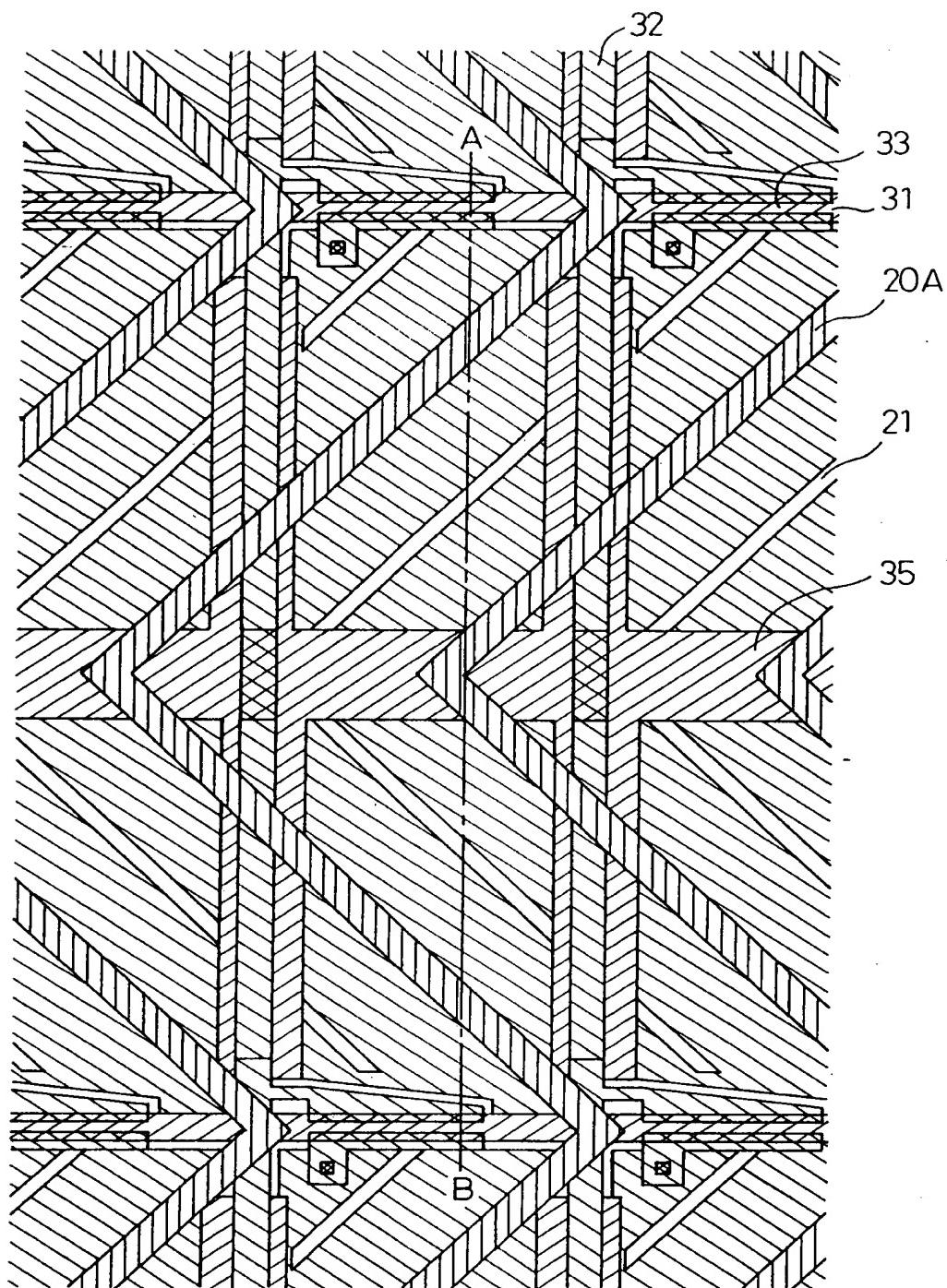
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Fig.43



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Fig. 44



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Fig. 45

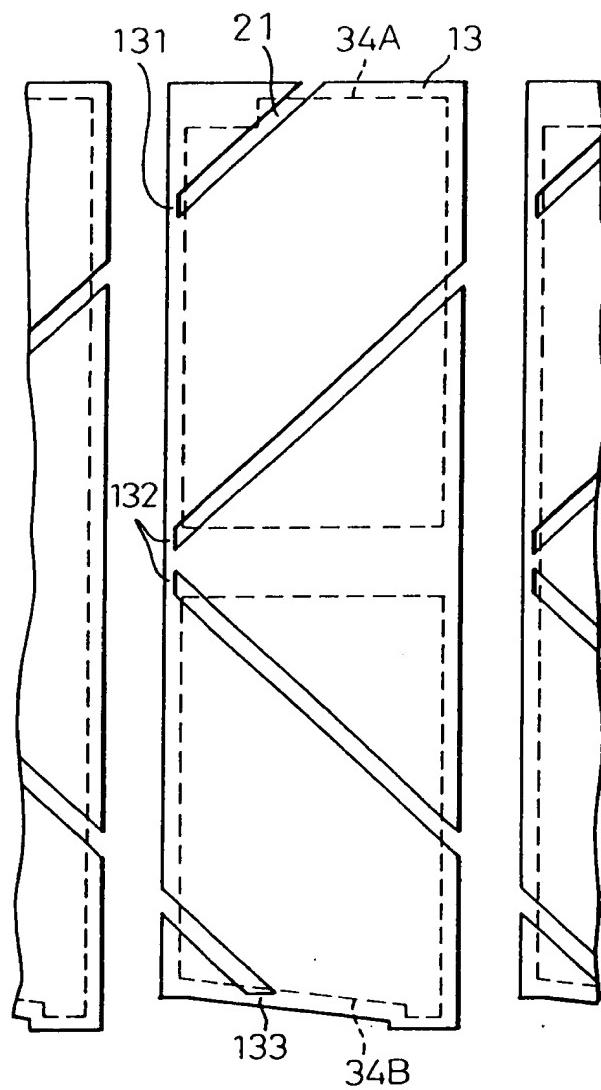
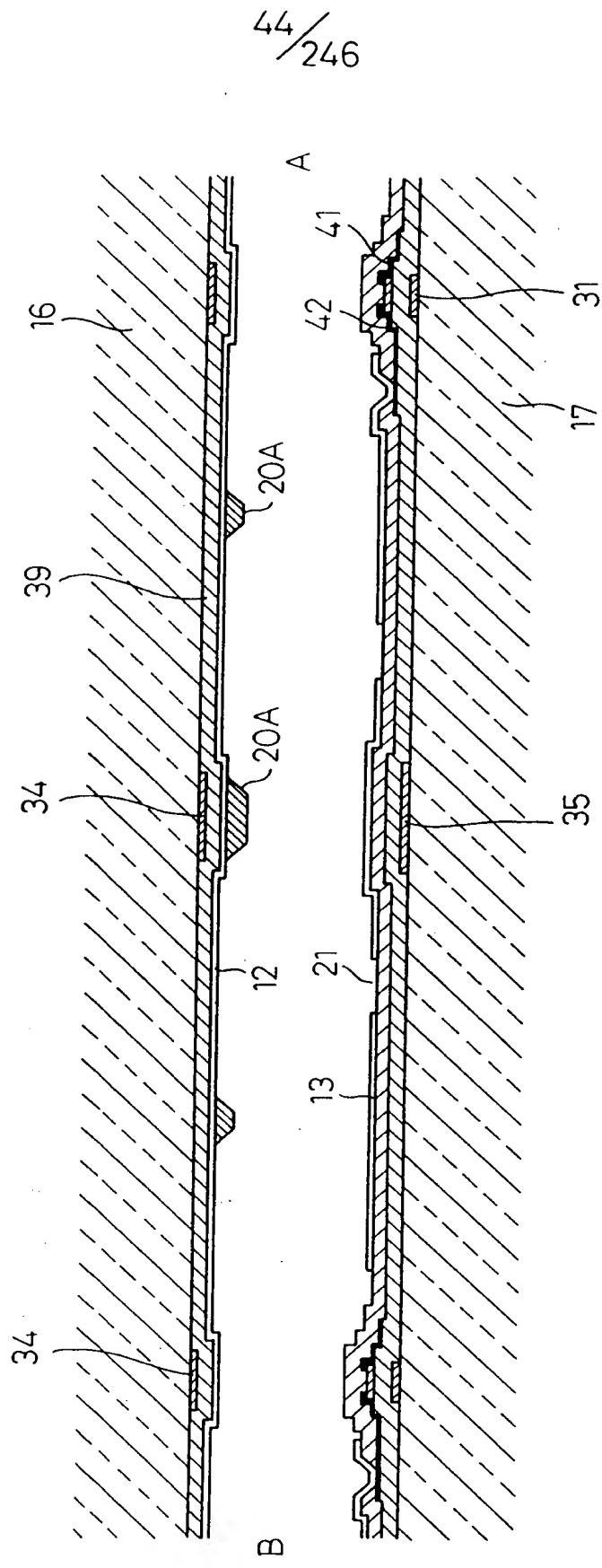
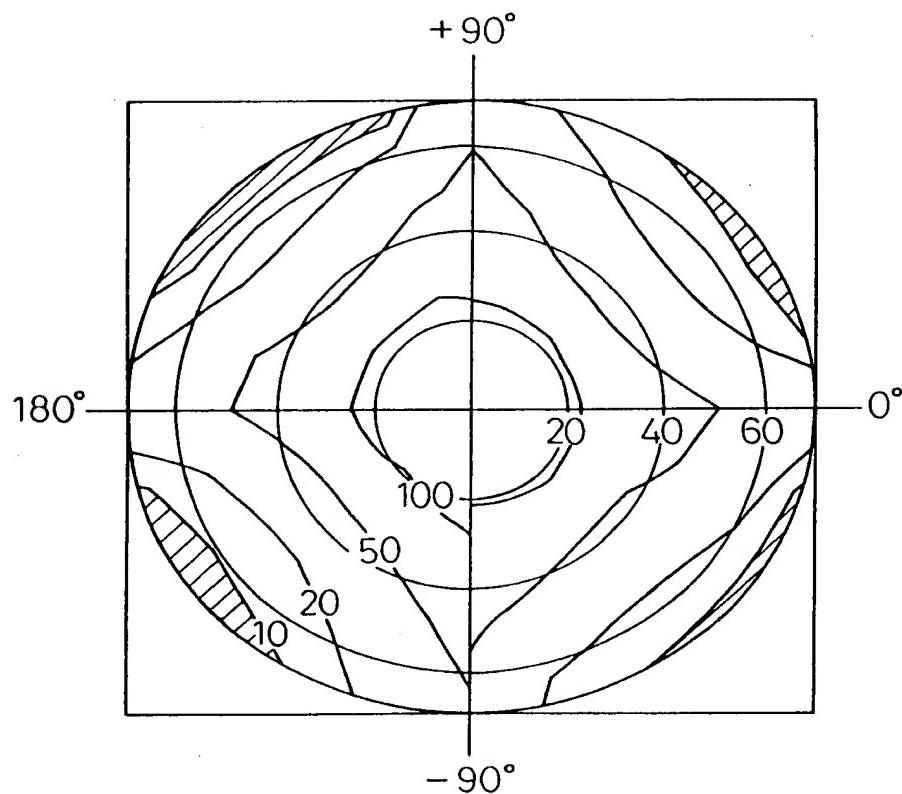


Fig. 46



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Fig. 47



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Fig. 48A

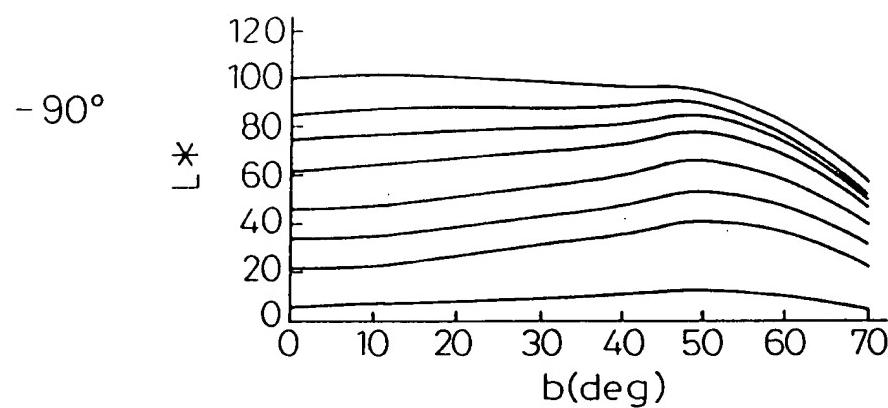


Fig. 48B

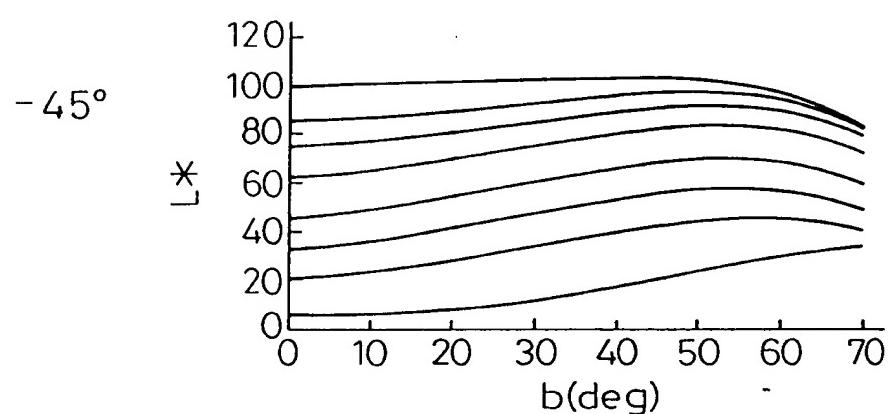
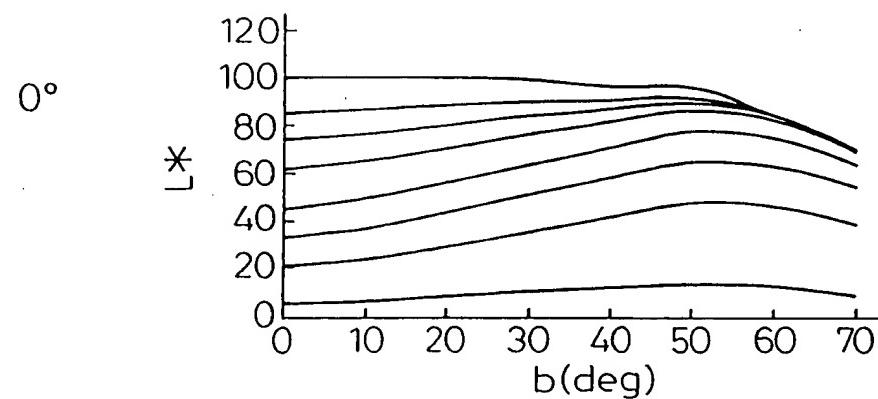


Fig. 48C



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Fig.49A

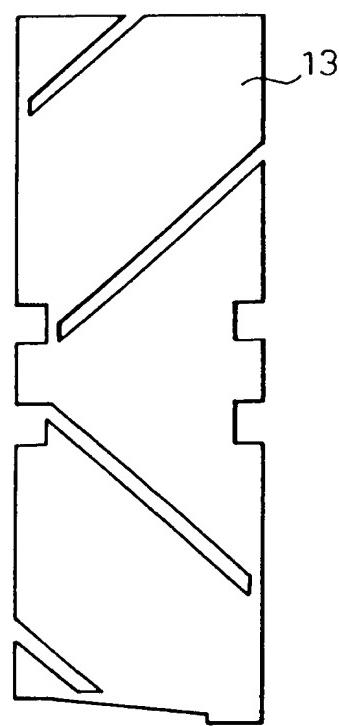
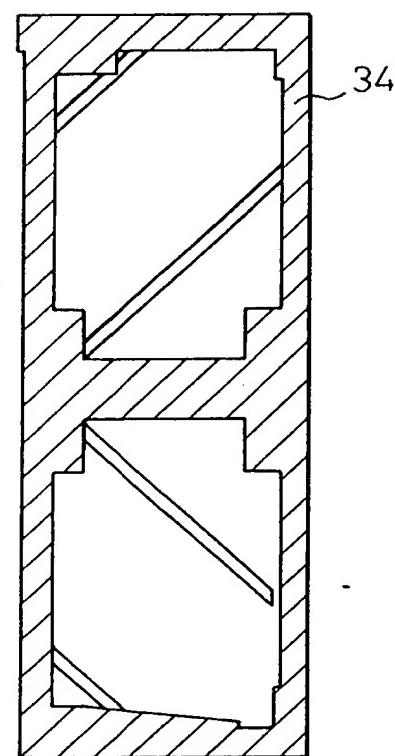


Fig.49B



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Fig.50A

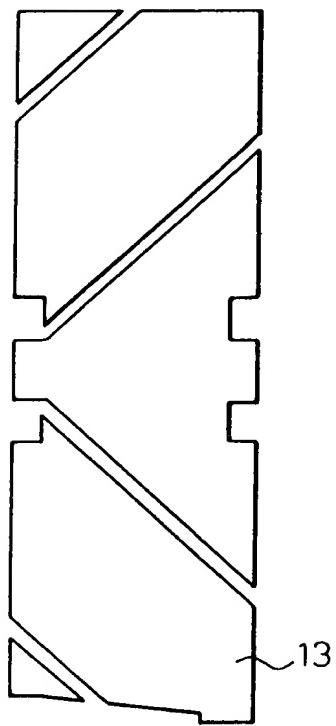
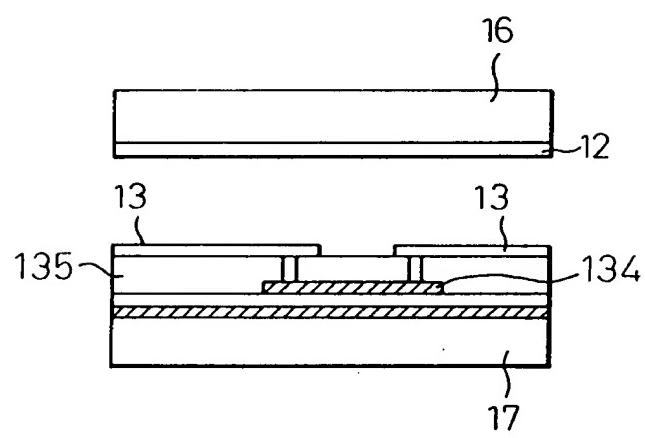


Fig.50B



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Fig.51

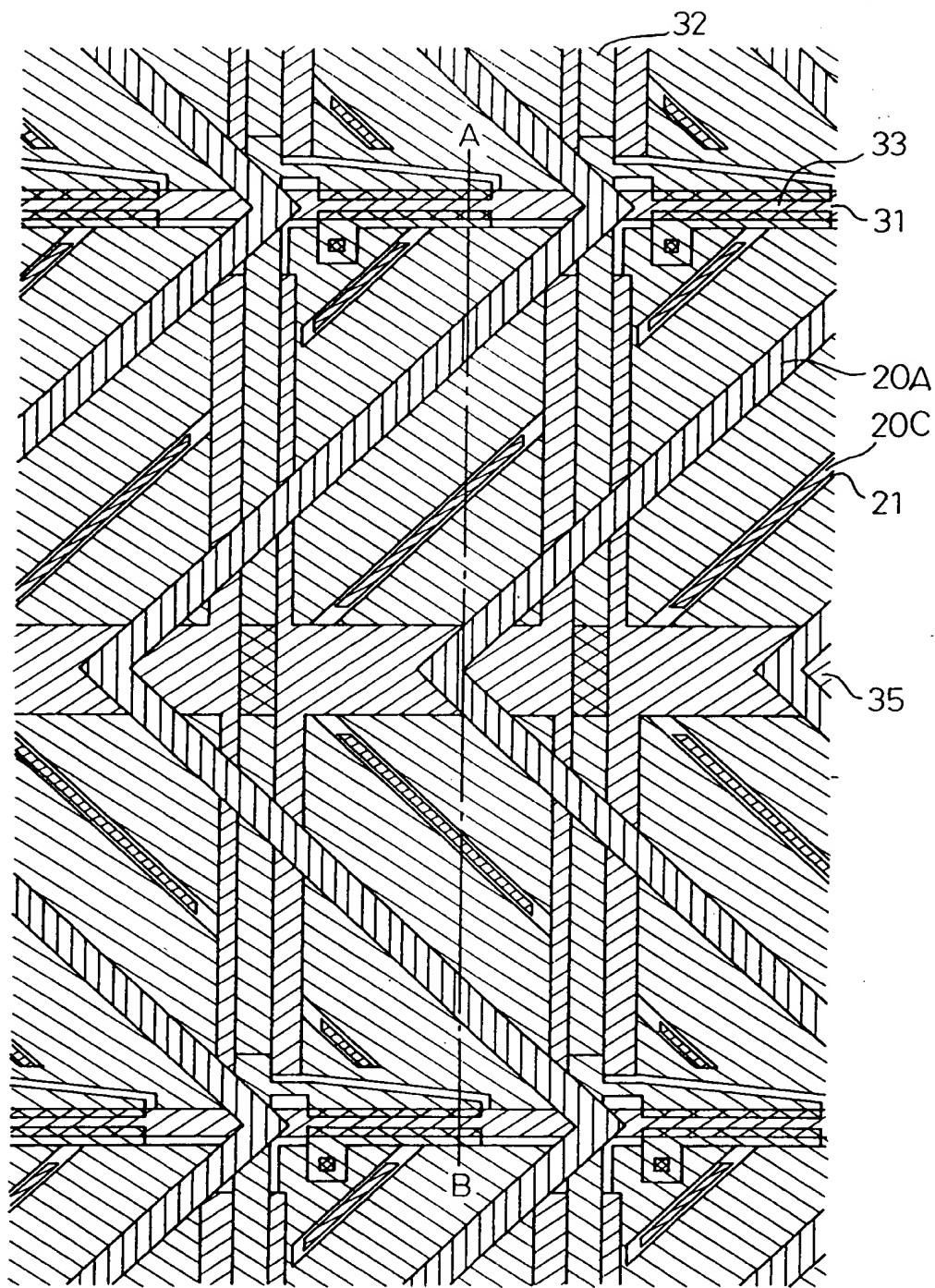
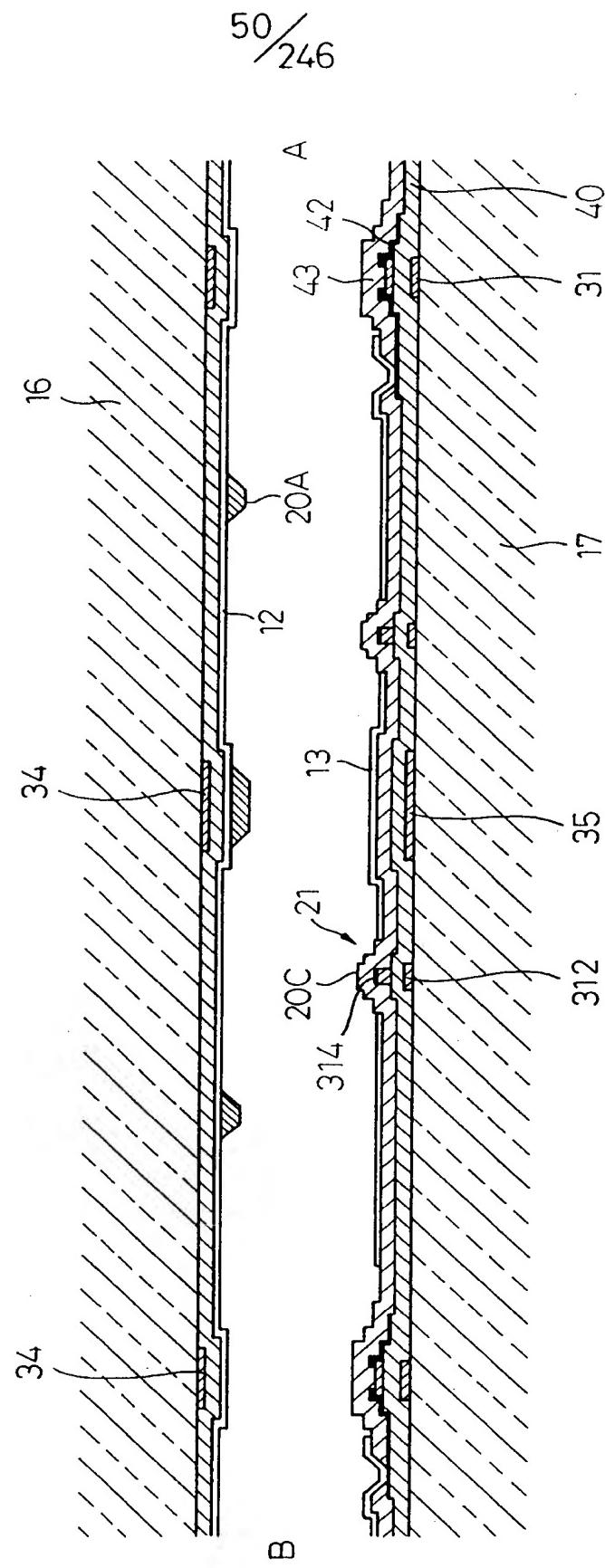


Fig. 52



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Fig.53A

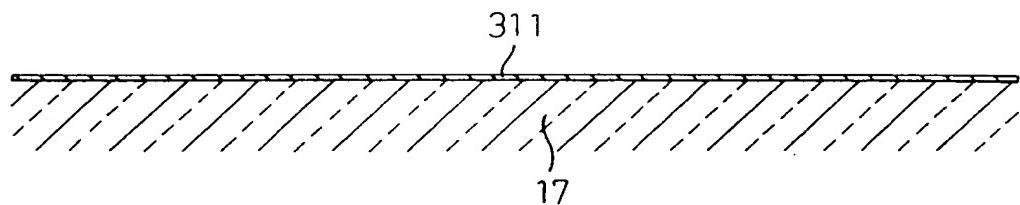


Fig.53B

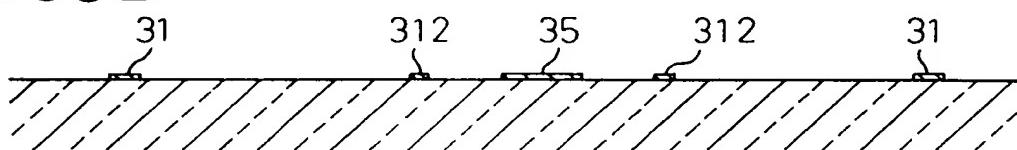


Fig.53C

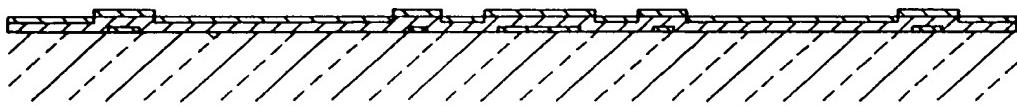


Fig.53D

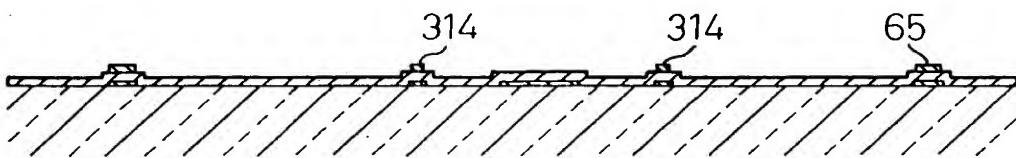
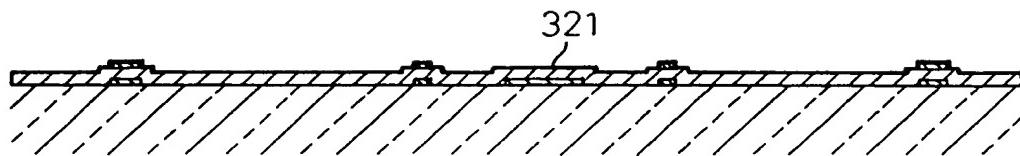


Fig.53E



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Fig.53F

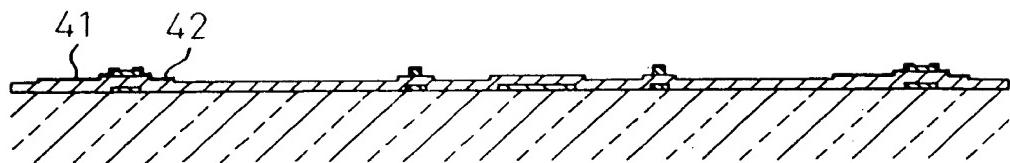


Fig.53G

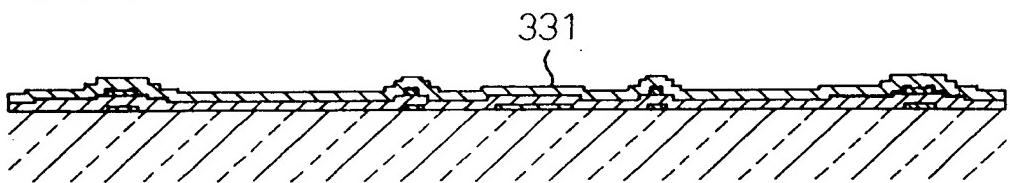


Fig.53H

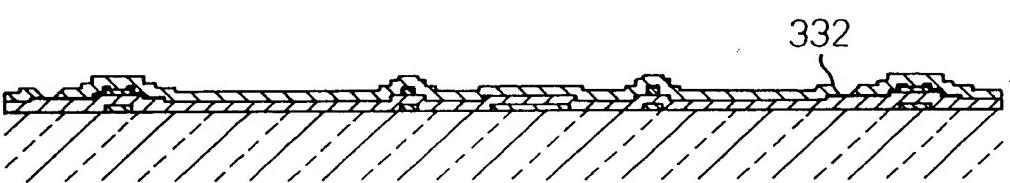


Fig.53I

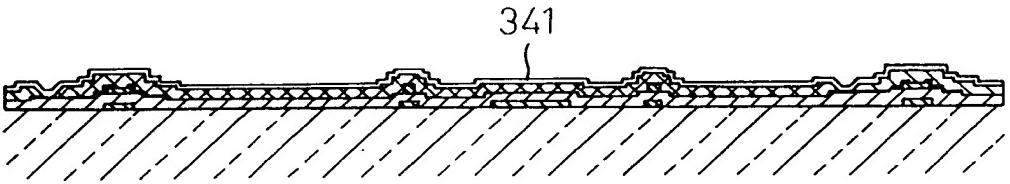


Fig.53J

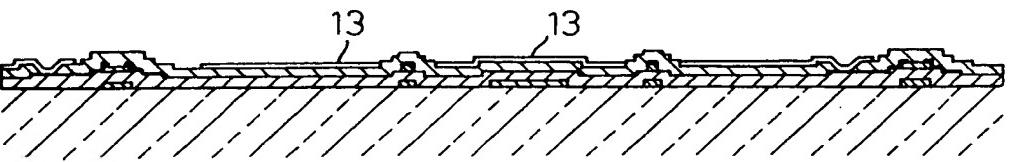
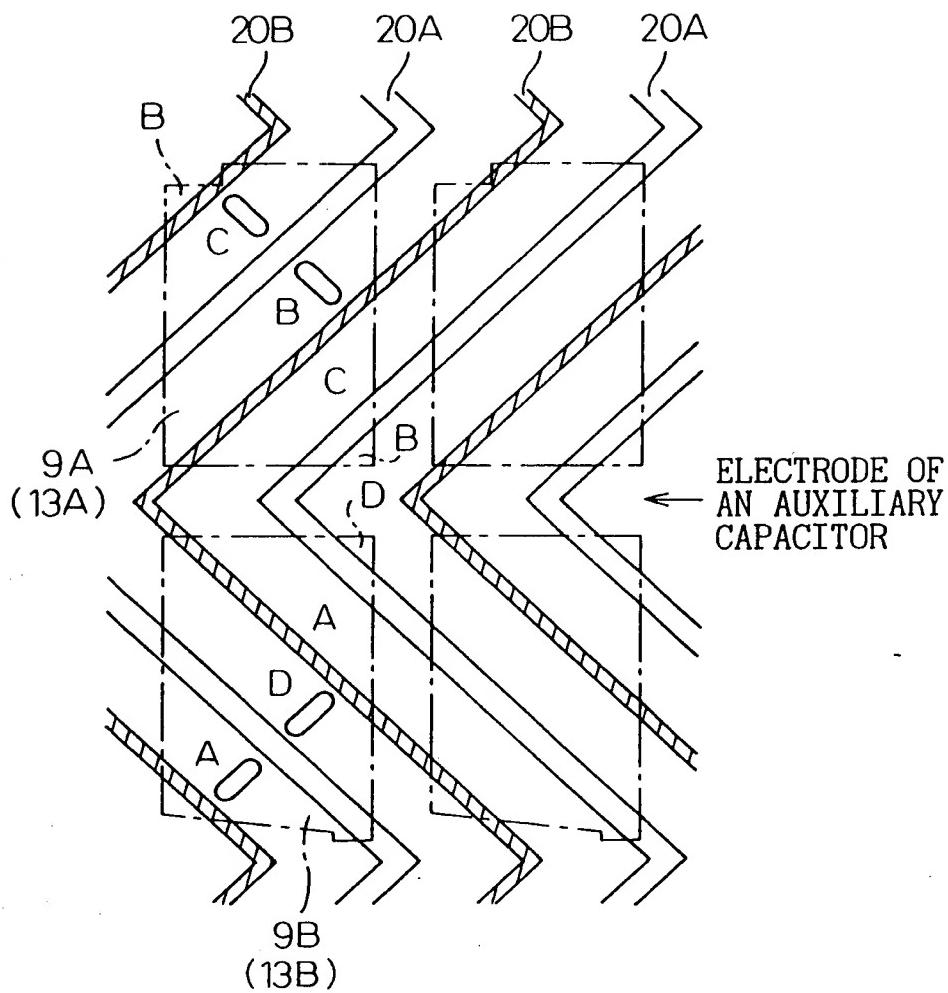
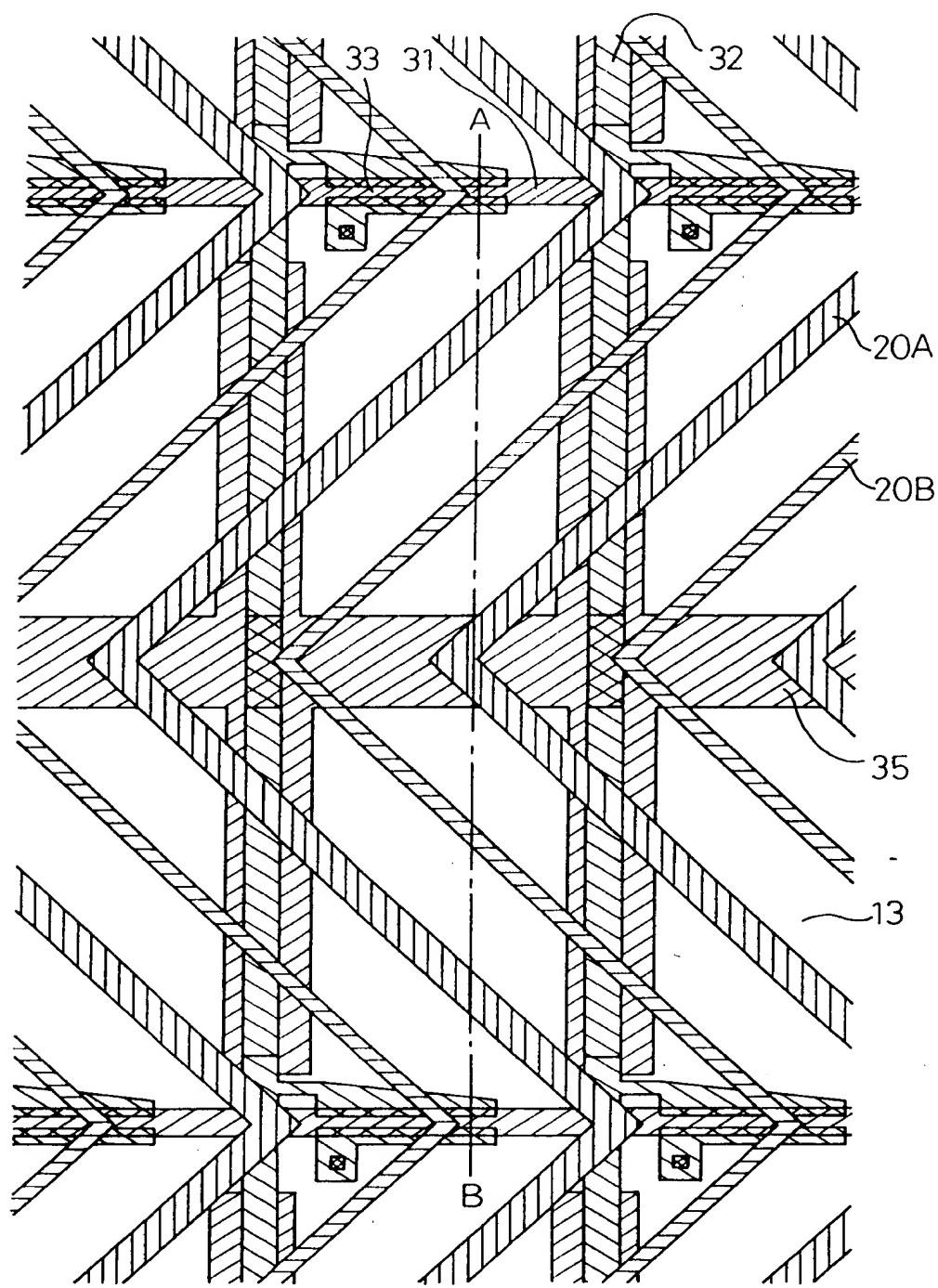


Fig. 54



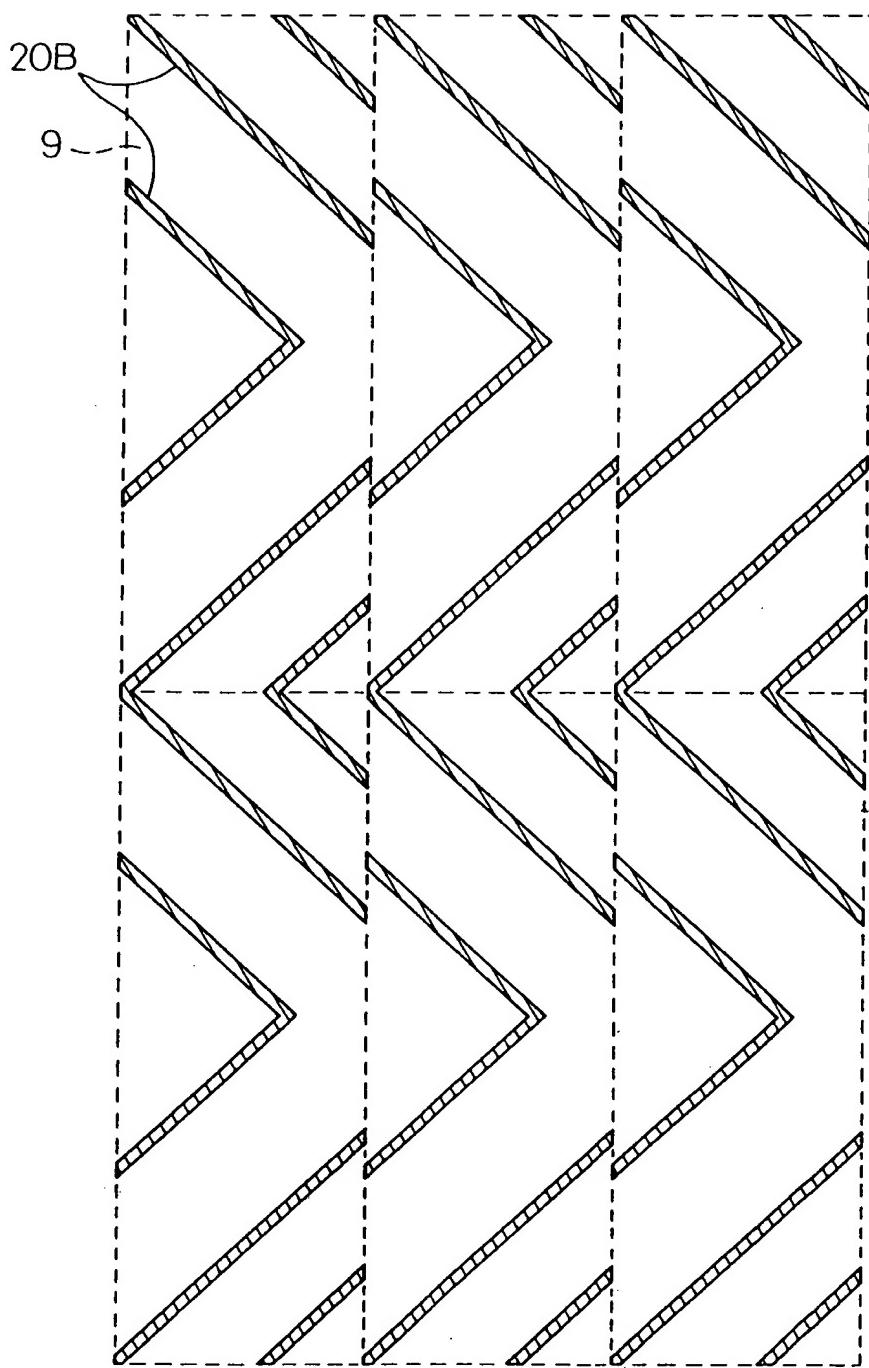
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Fig.55



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Fig. 56



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Fig.57A

WHEN NO VOLTAGE IS APPLIED

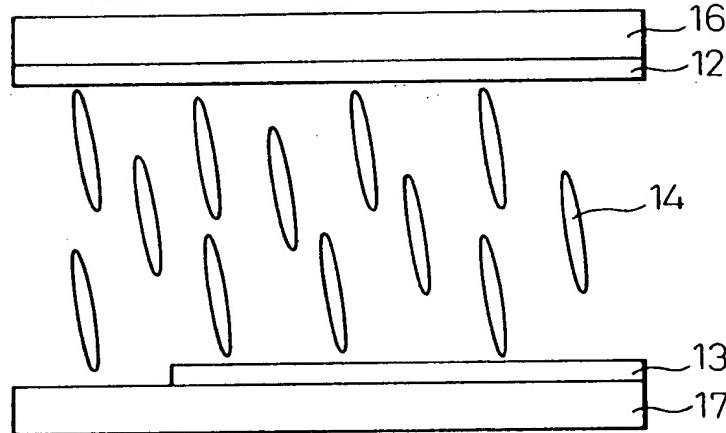
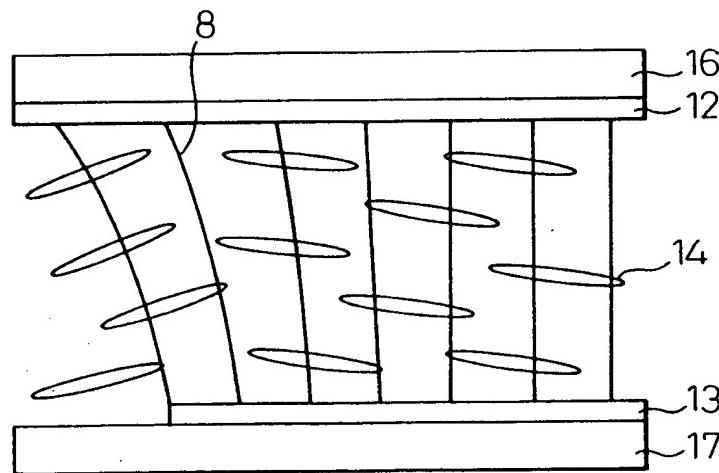


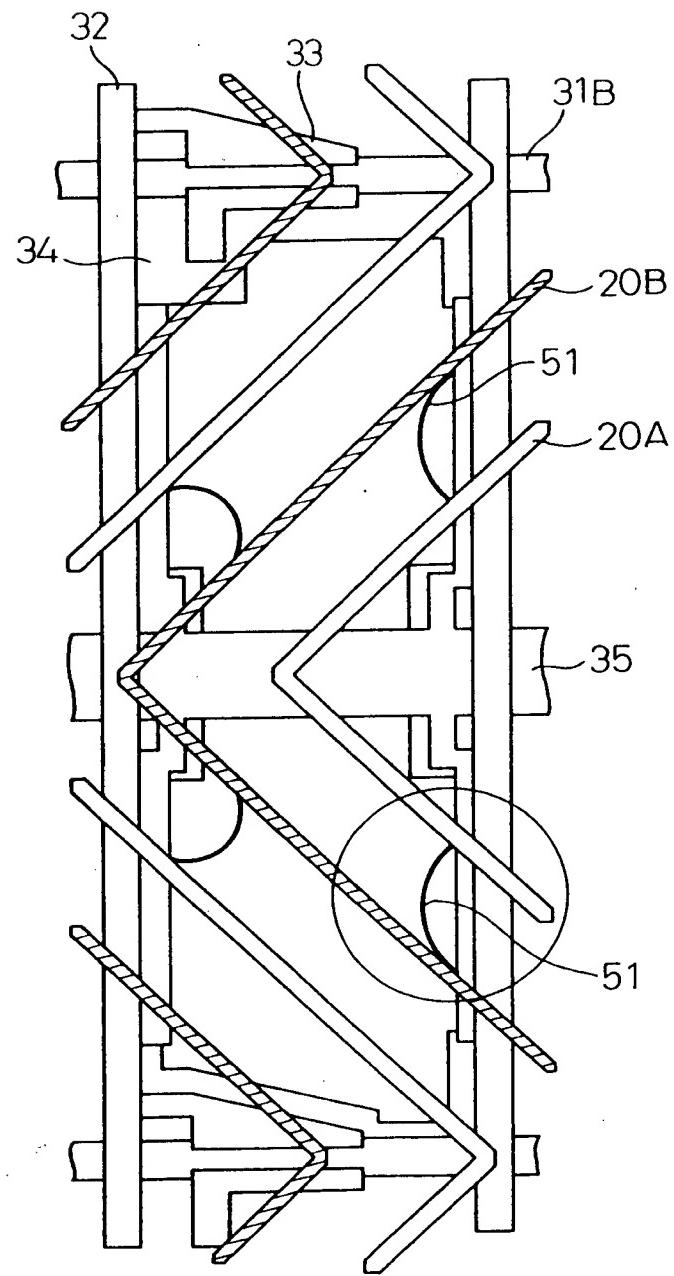
Fig.57B

WHEN A VOLTAGE IS APPLIED



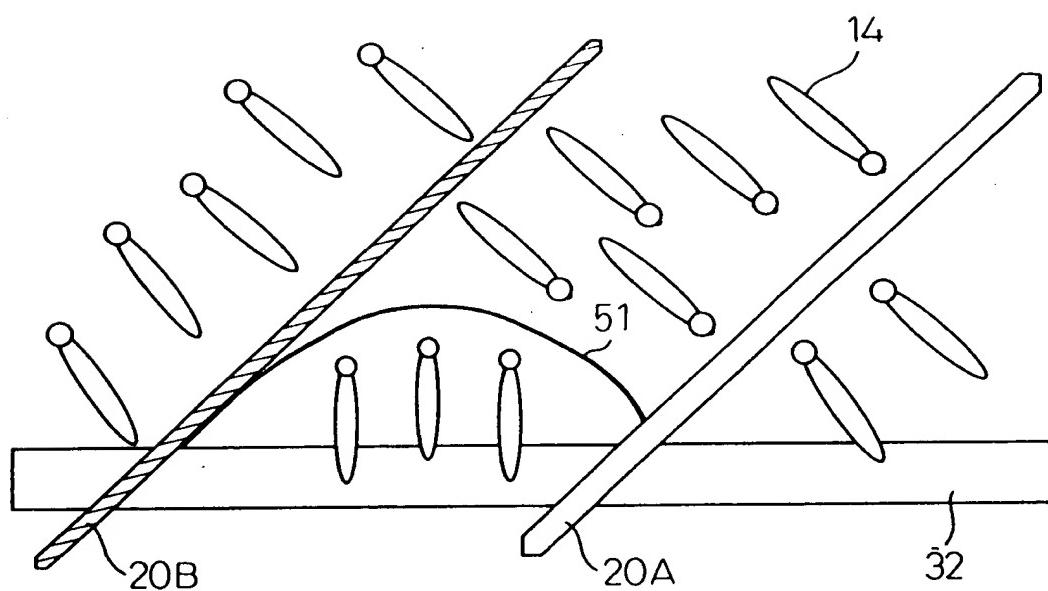
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Fig.58



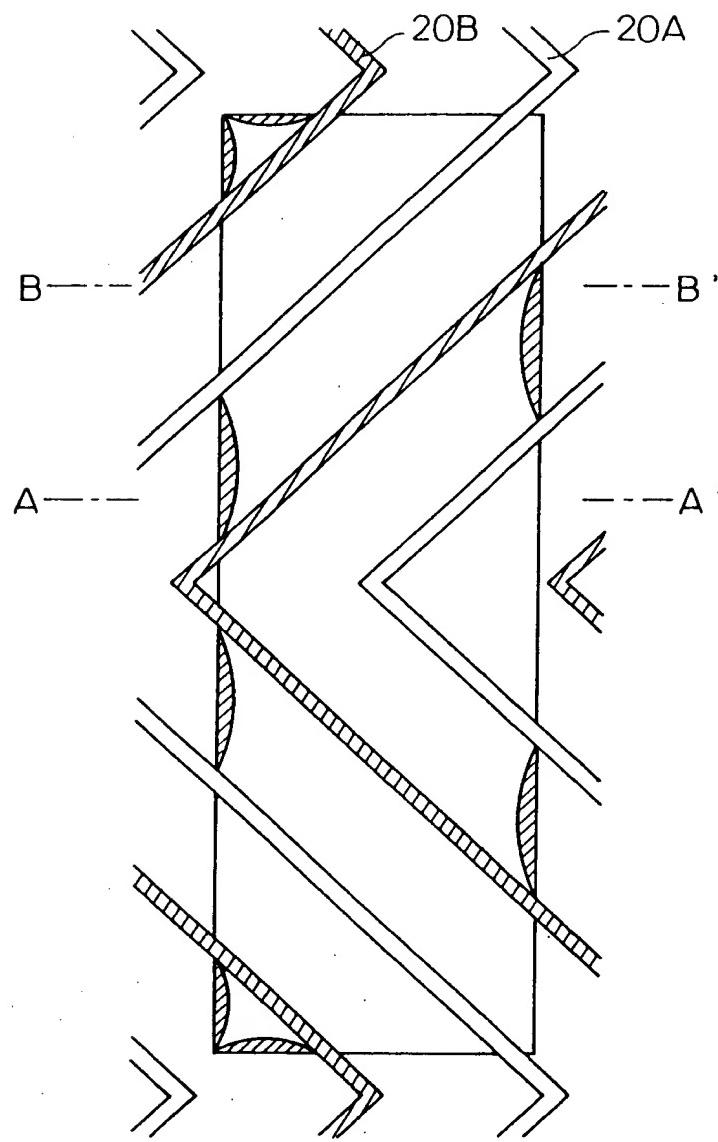
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Fig. 59



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Fig. 60



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Fig. 61A

A - A'

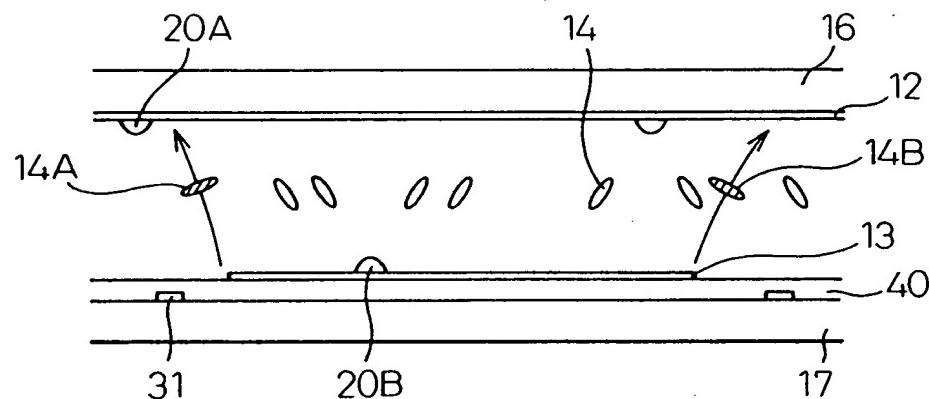
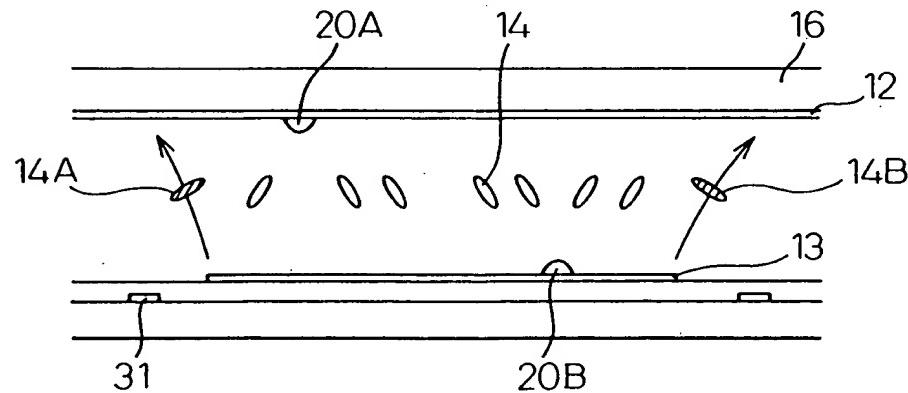


Fig. 61B

B - B'



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Fig. 62A

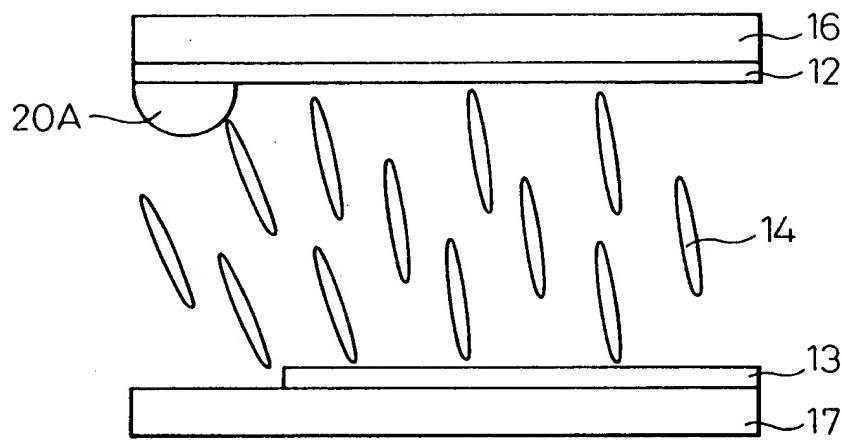
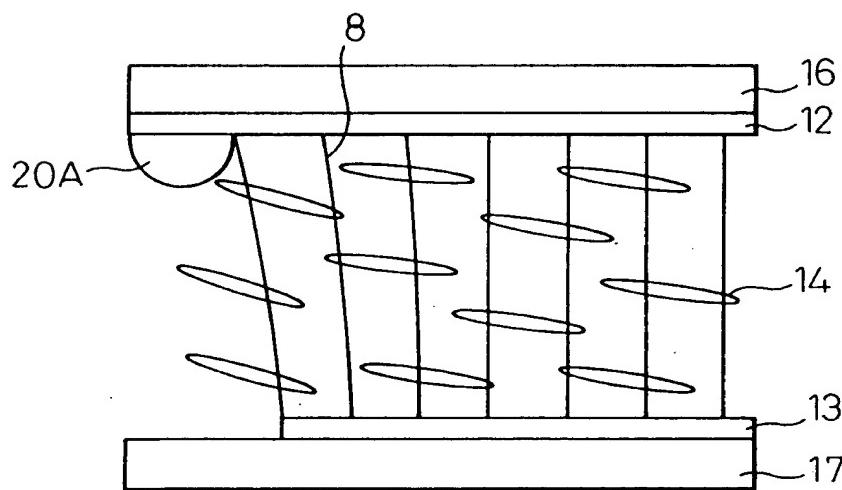
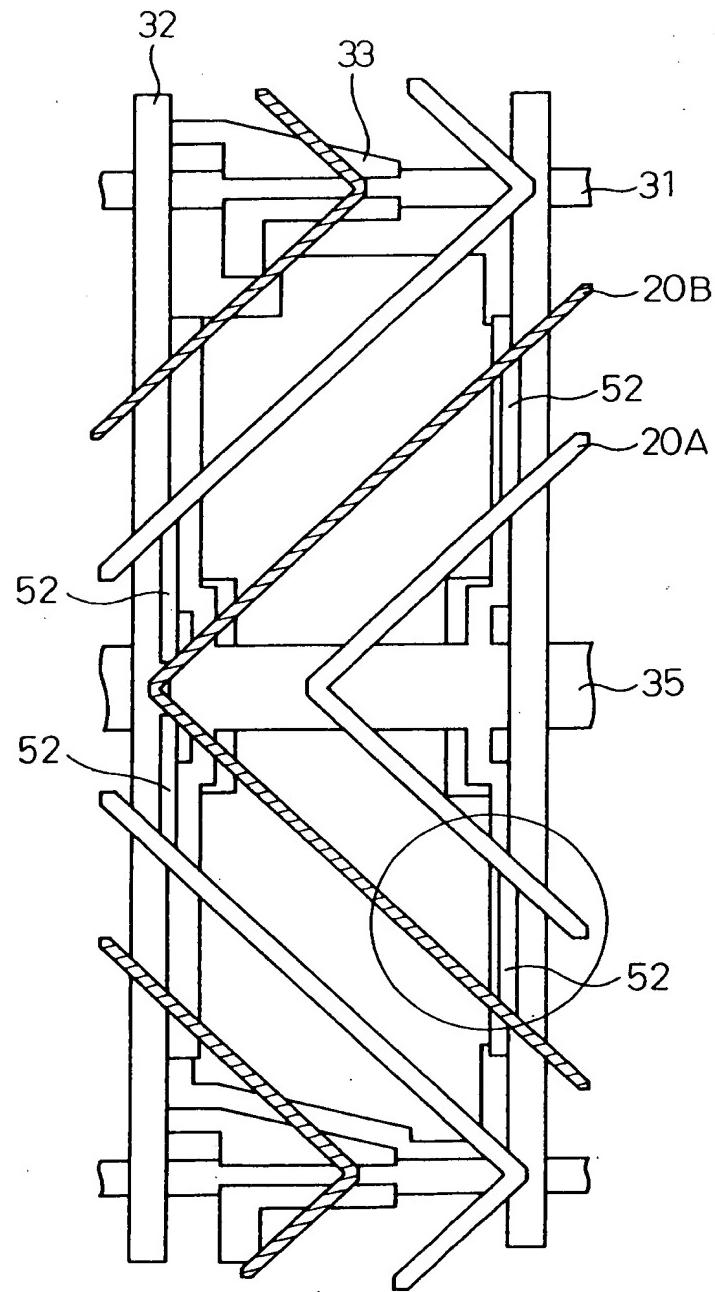


Fig. 62B



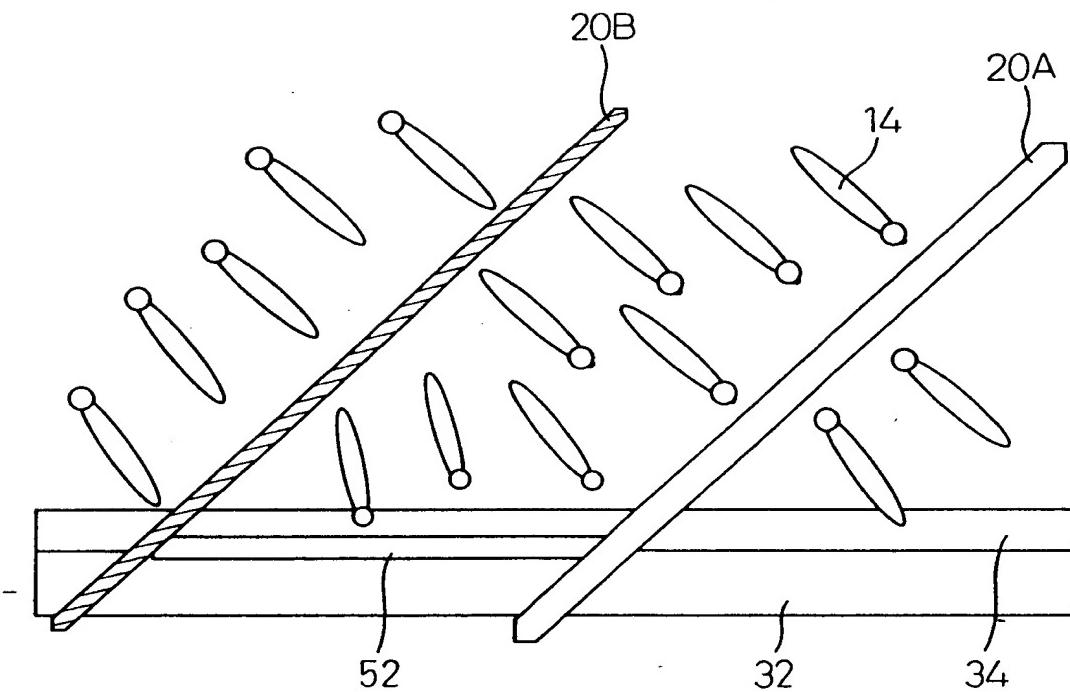
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Fig. 63



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Fig. 64



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Fig. 65A

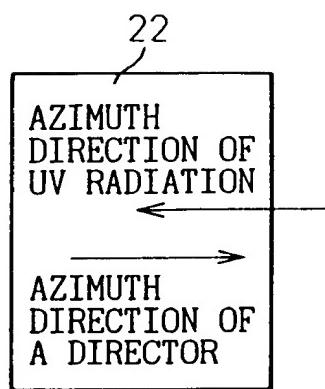
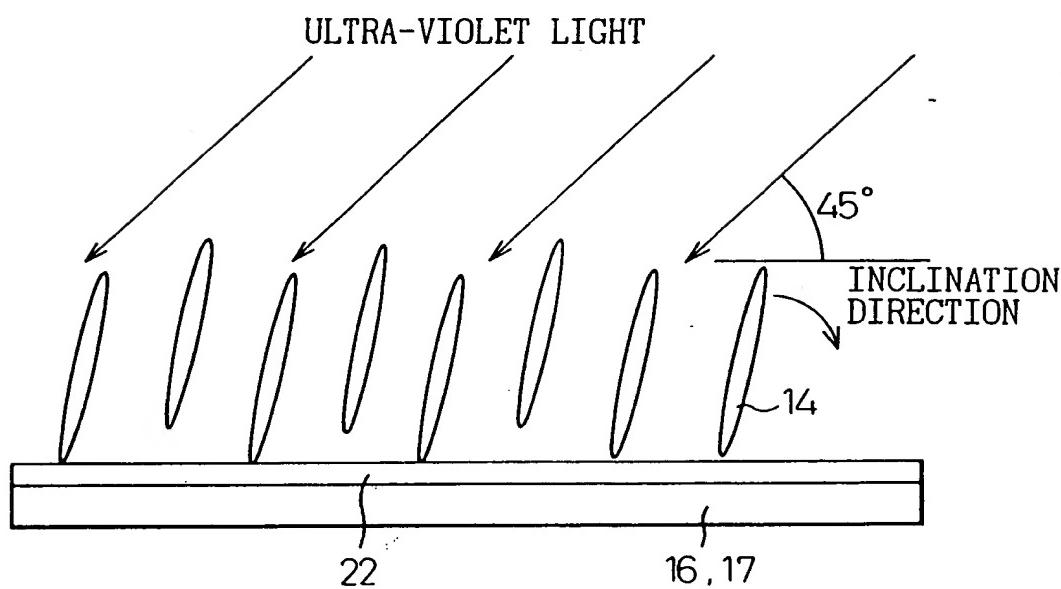
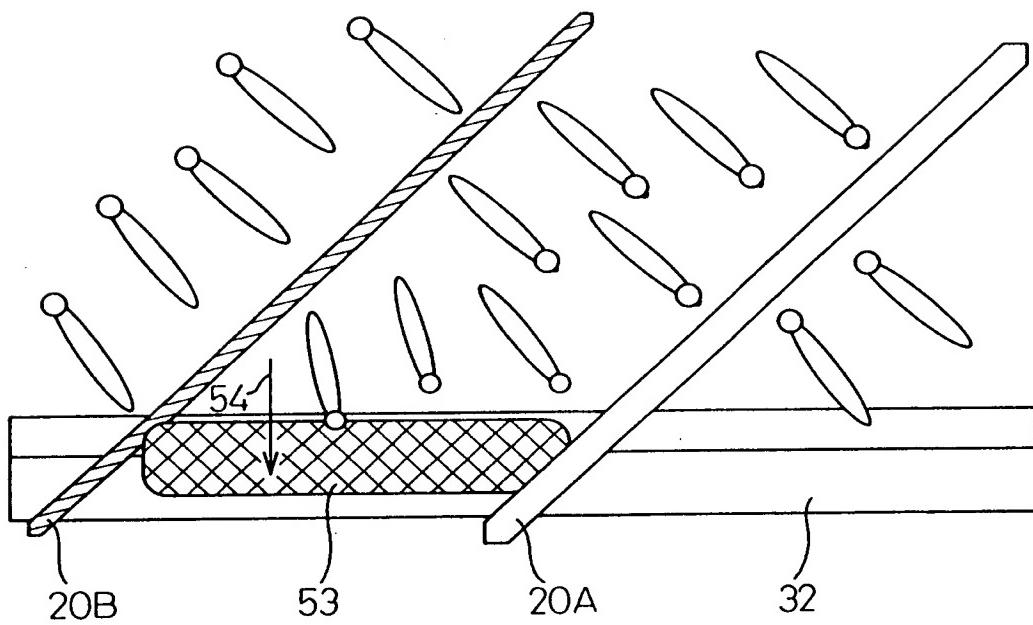


Fig. 65B



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Fig. 66



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Fig. 67A

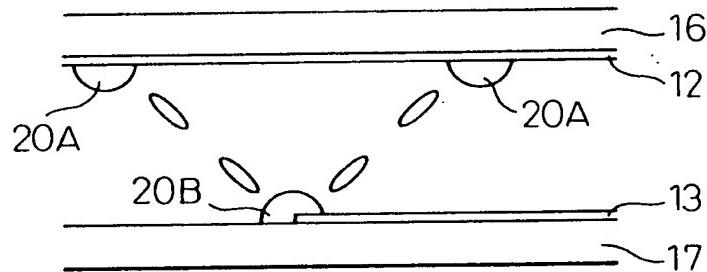


Fig. 67B

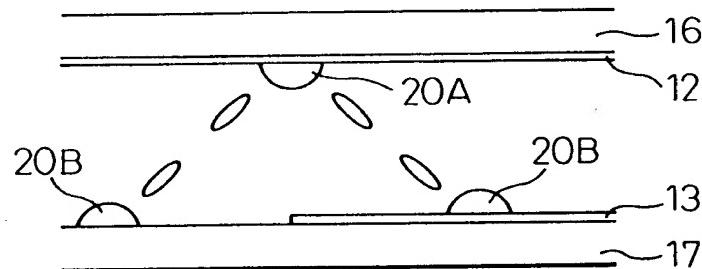
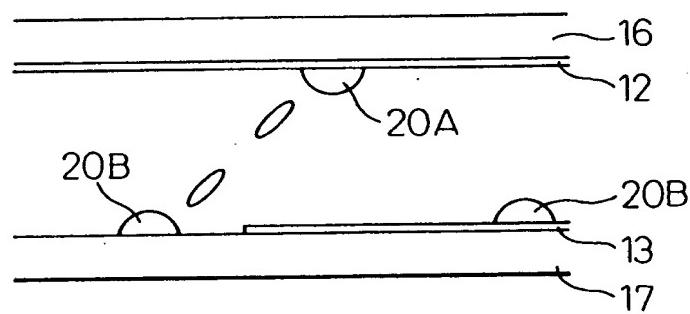
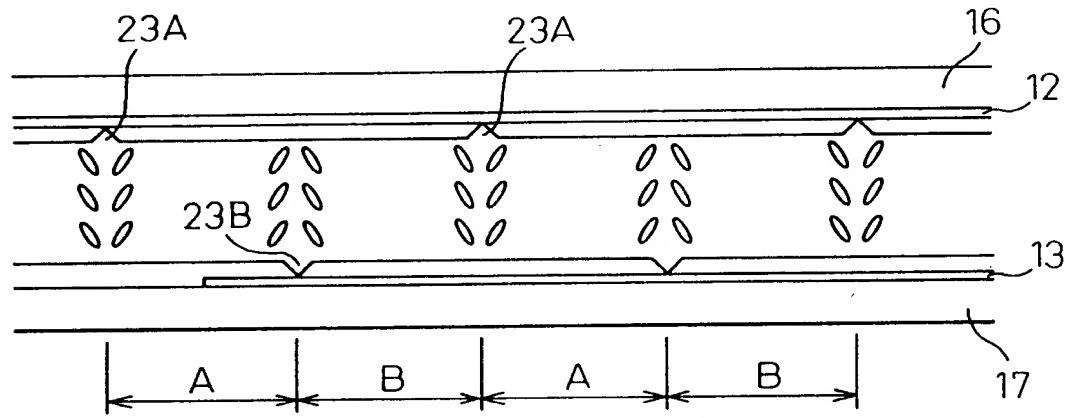


Fig. 67C



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Fig. 68



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Fig. 69A

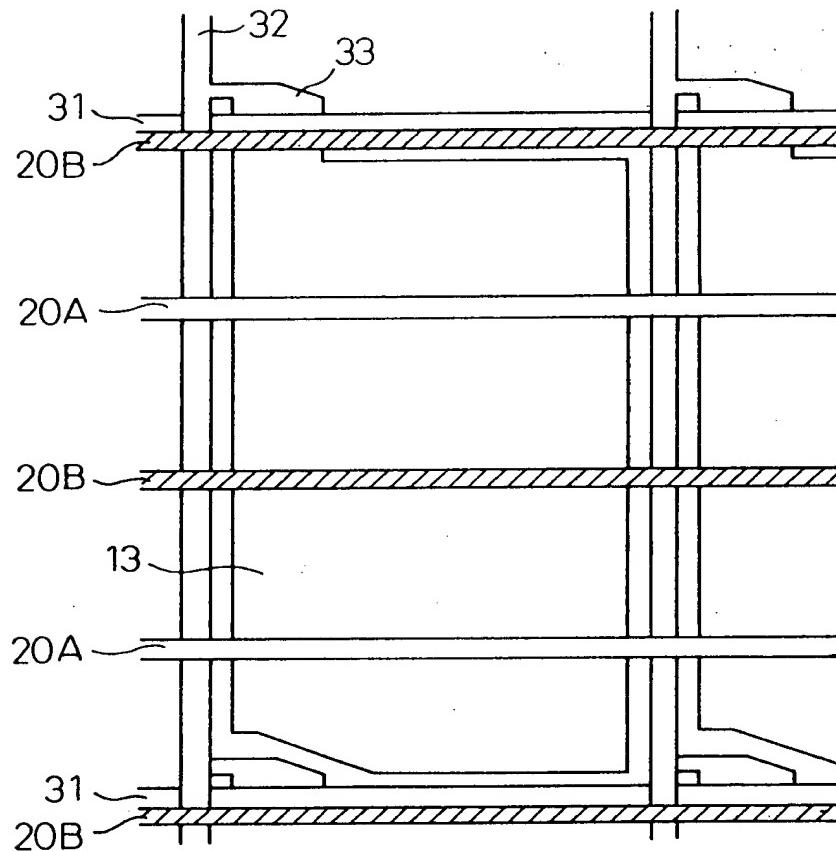
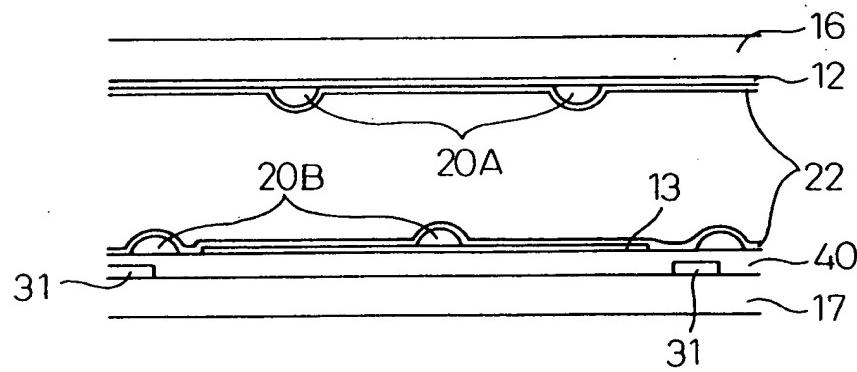


Fig. 69B



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Fig.70A

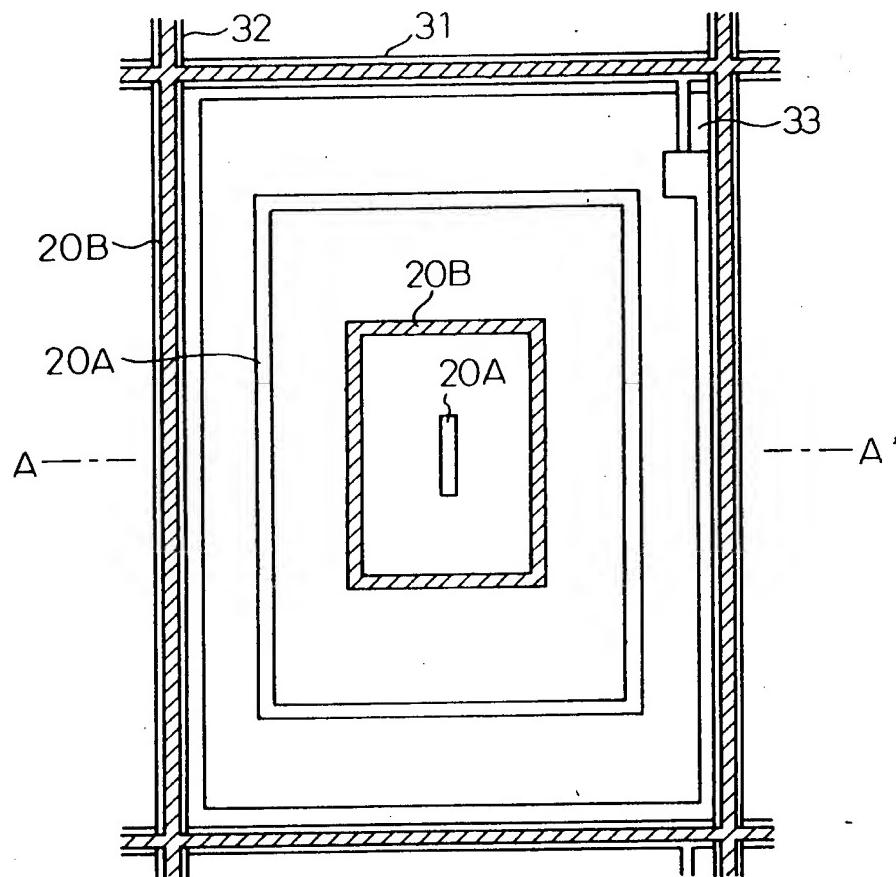
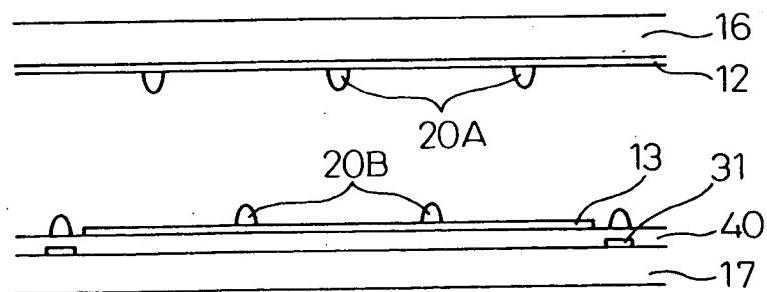
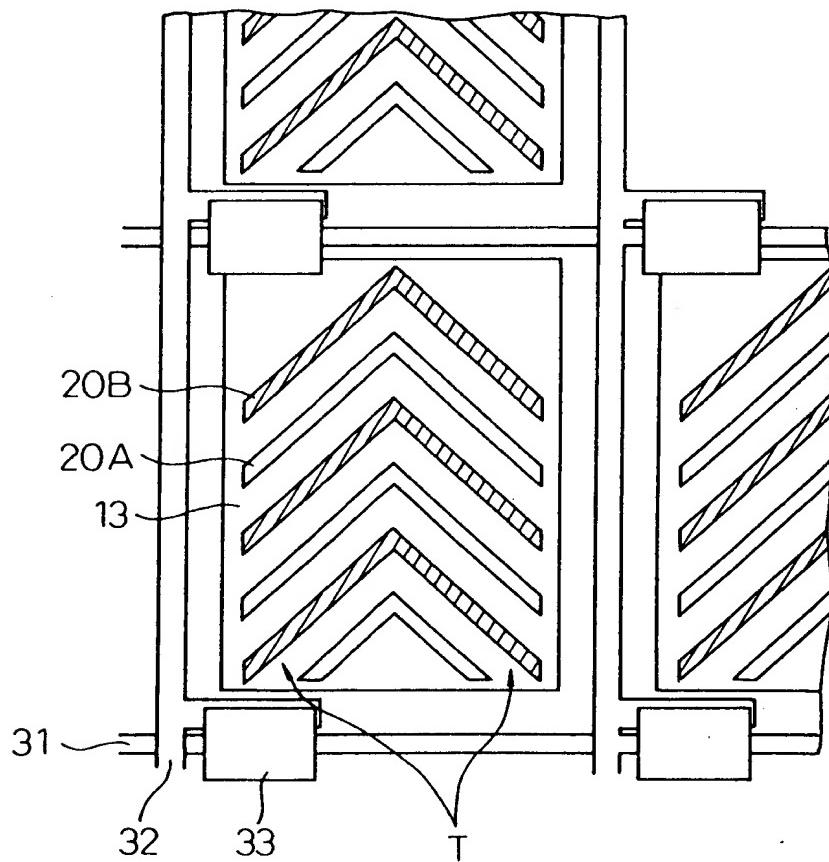


Fig.70B



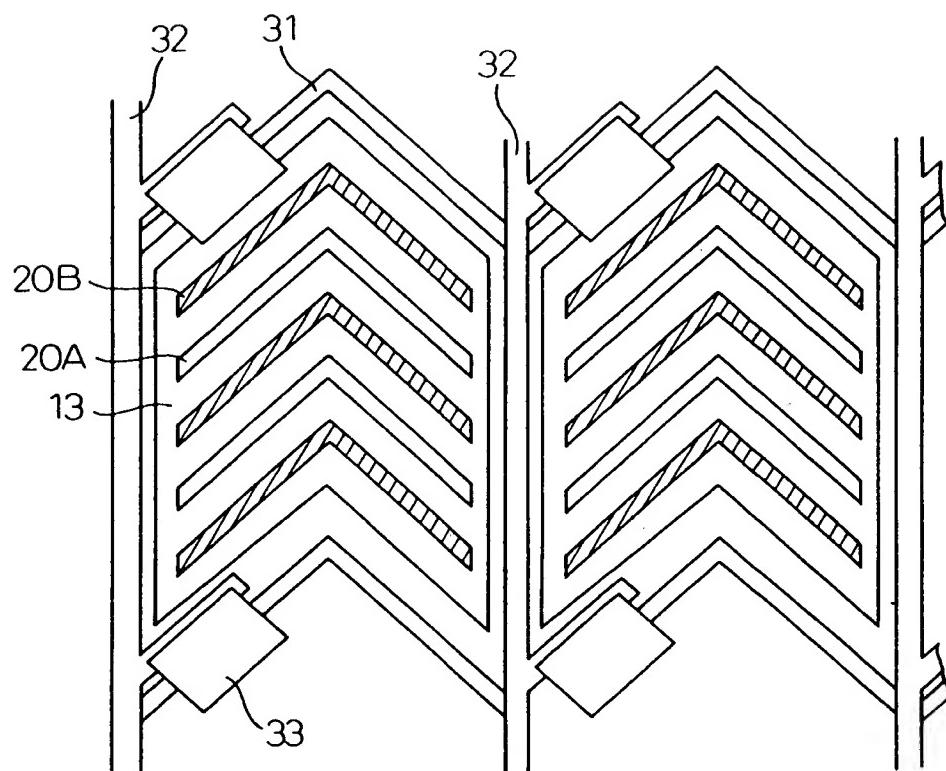
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Fig. 71



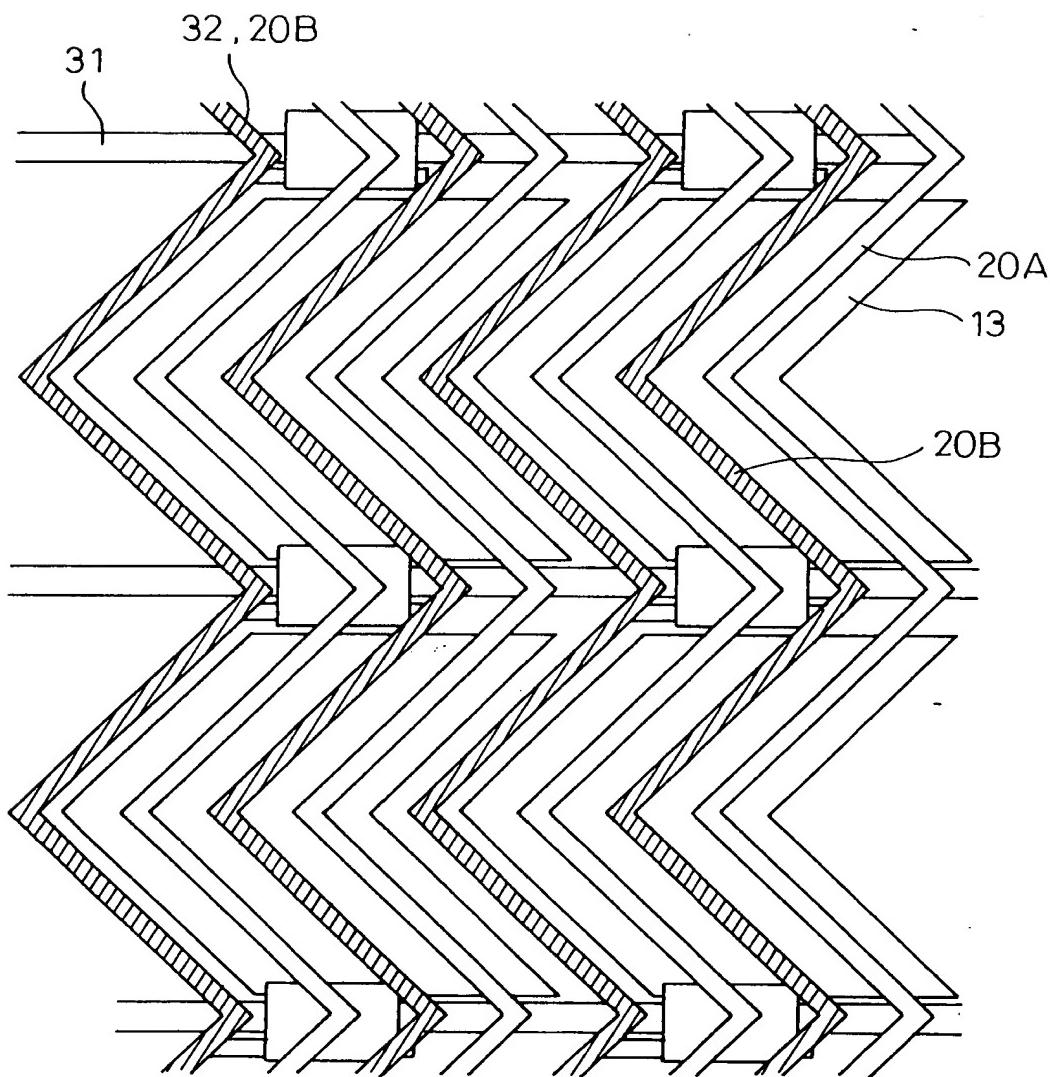
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Fig. 72



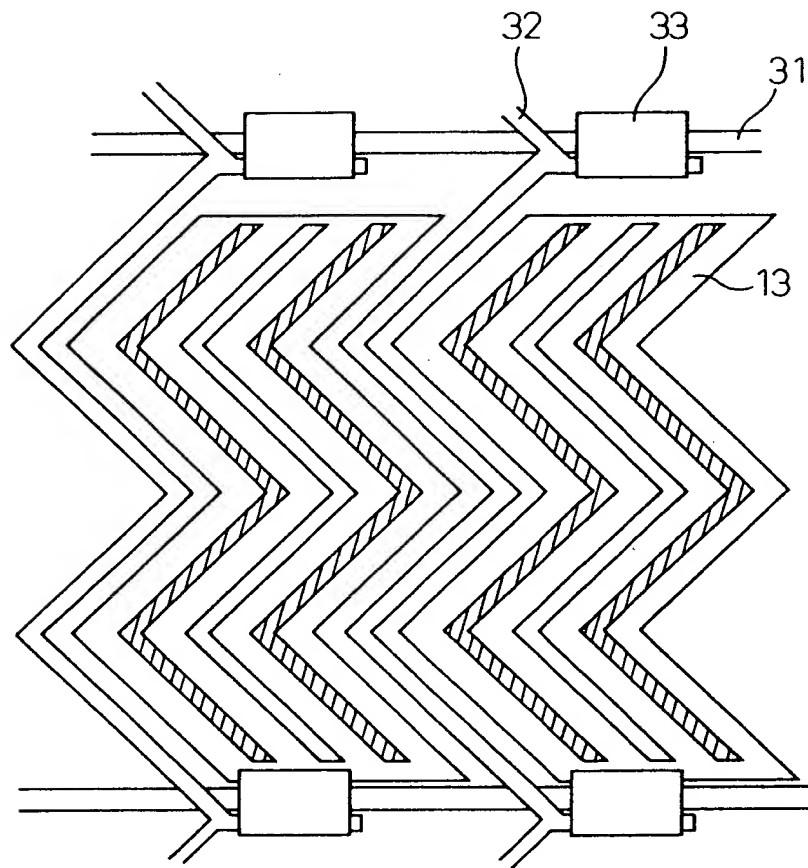
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Fig. 73



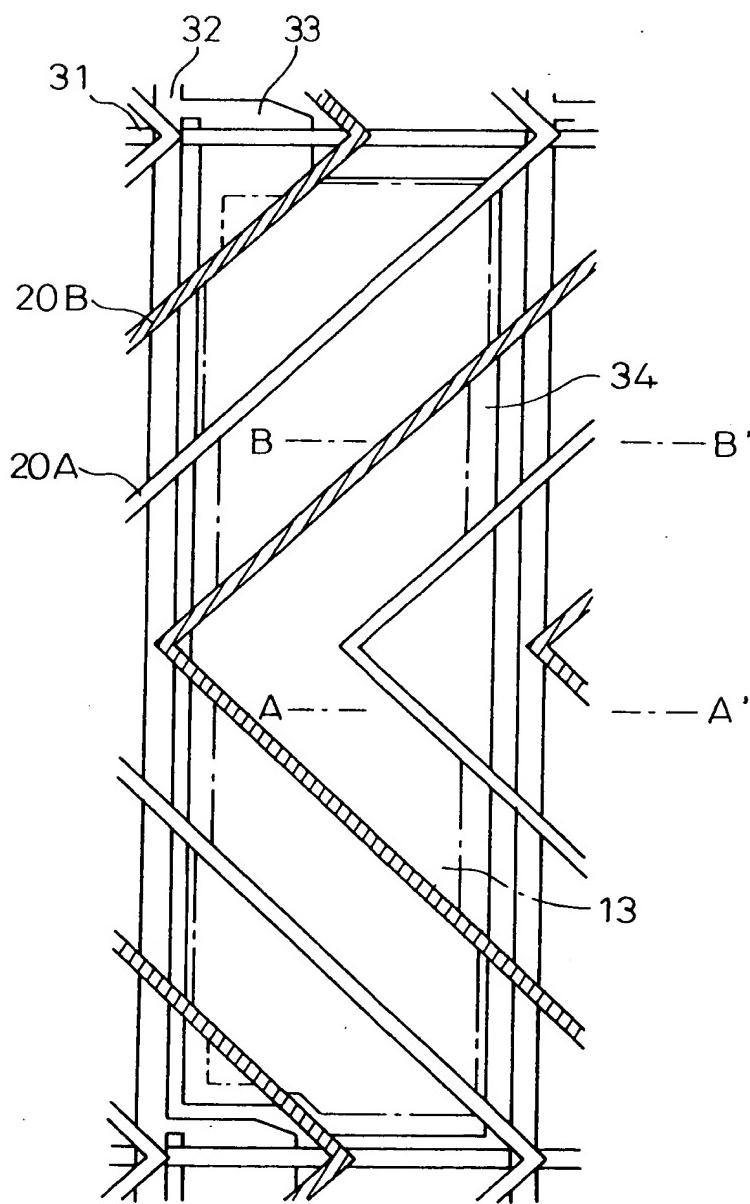
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Fig. 74



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Fig. 75



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Fig. 76A
A-A'

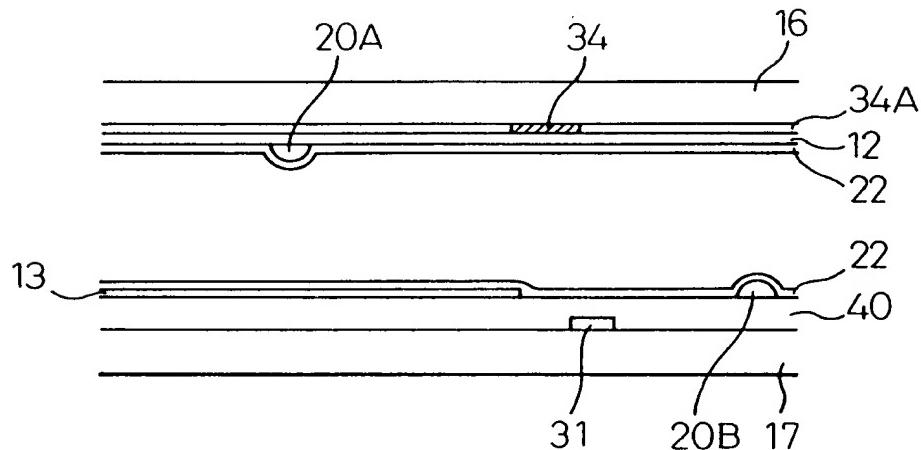
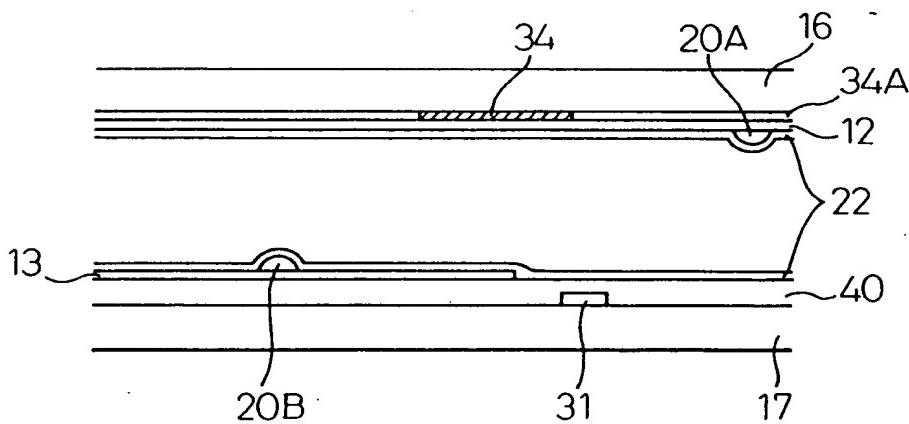


Fig. 76B
B-B'



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Fig.77A

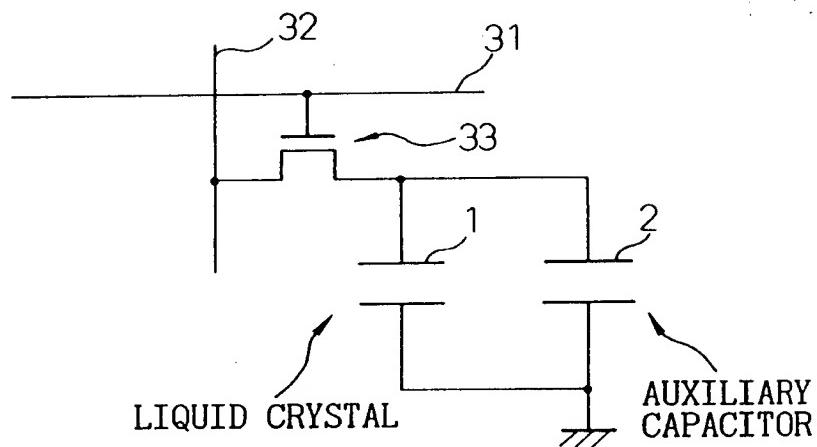
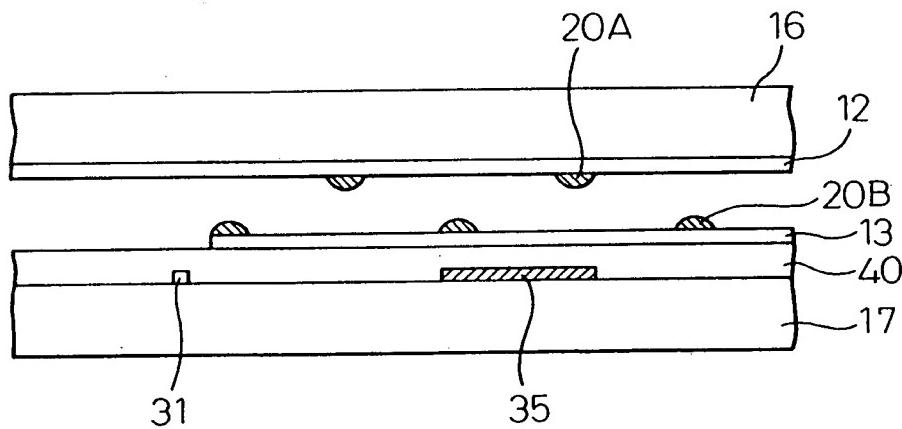


Fig.77B



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Fig.78A

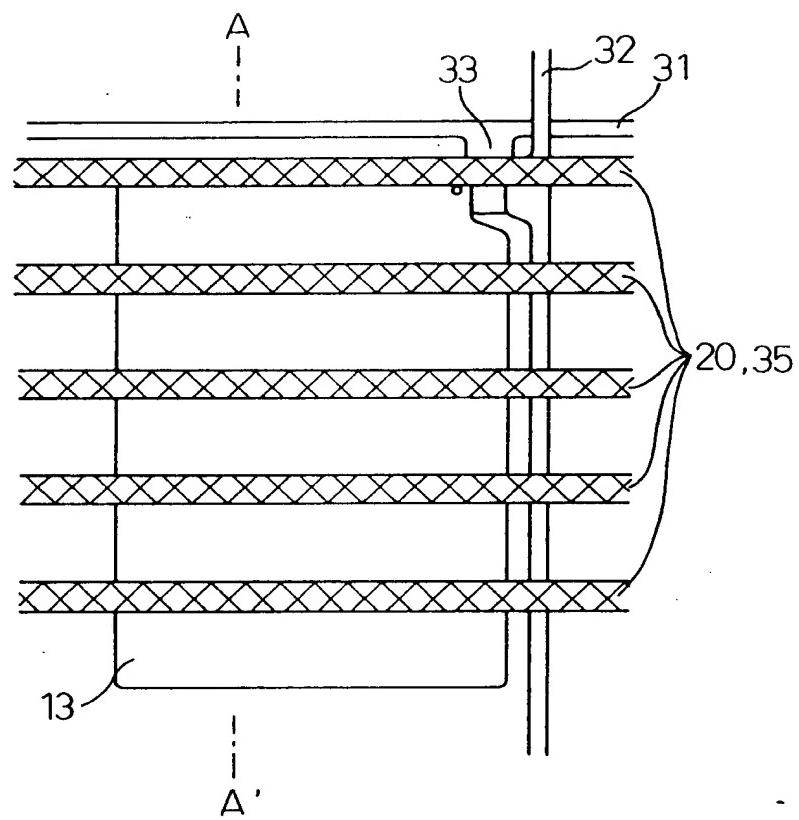
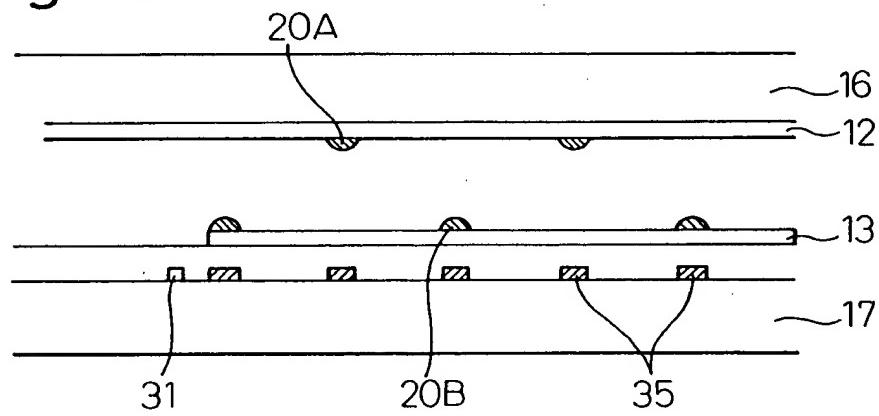


Fig.78B



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Fig. 79A

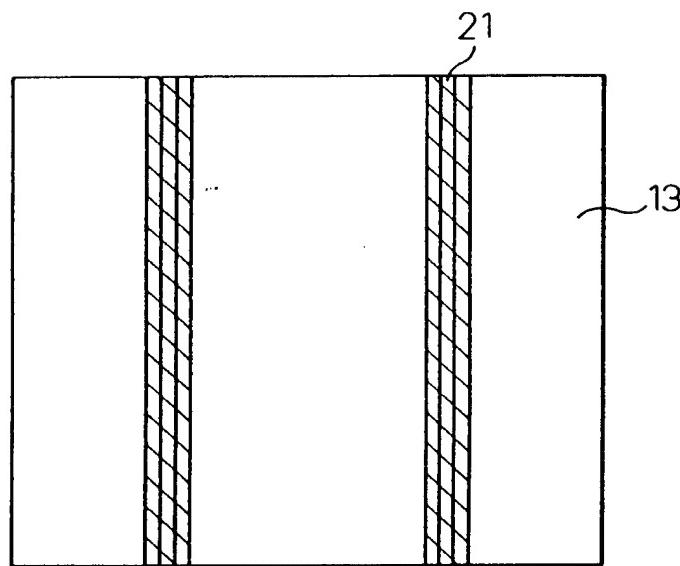
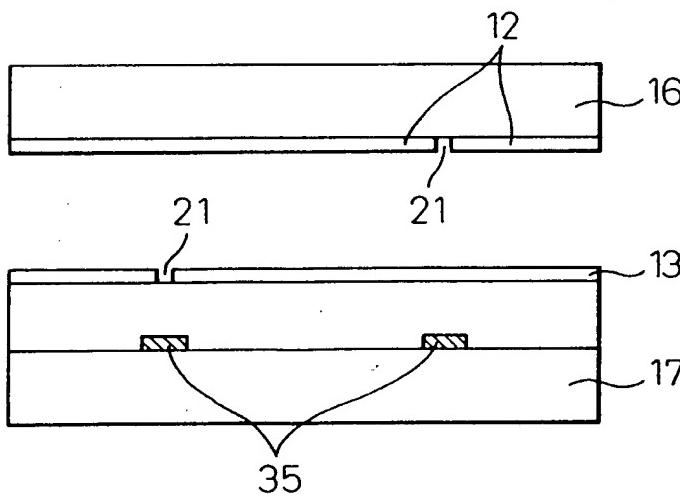


Fig. 79B



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Fig. 80A

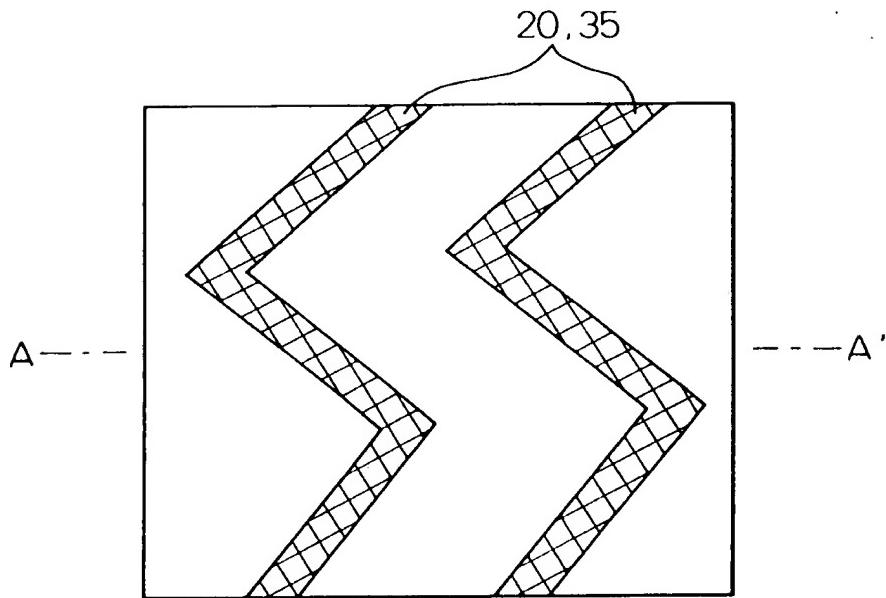
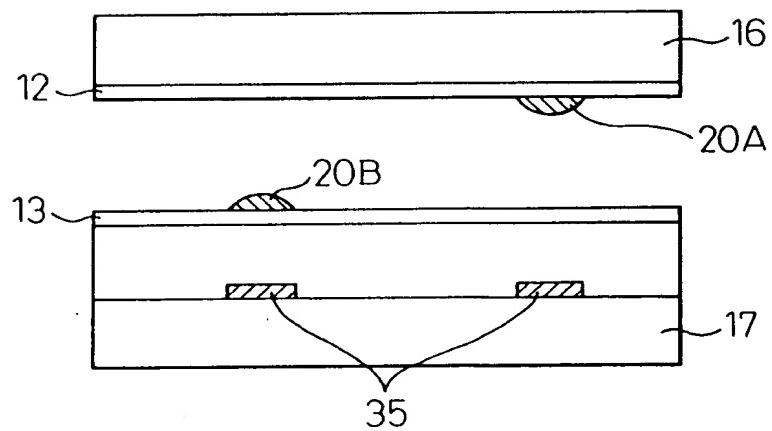


Fig. 80B



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Fig.81A

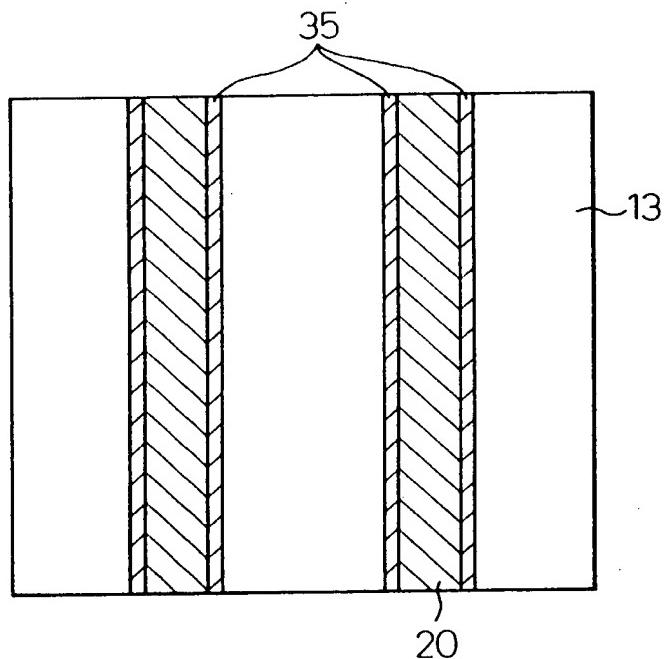
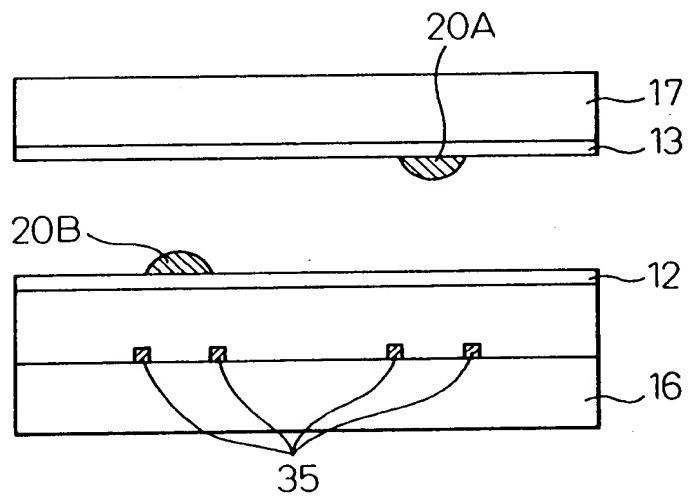
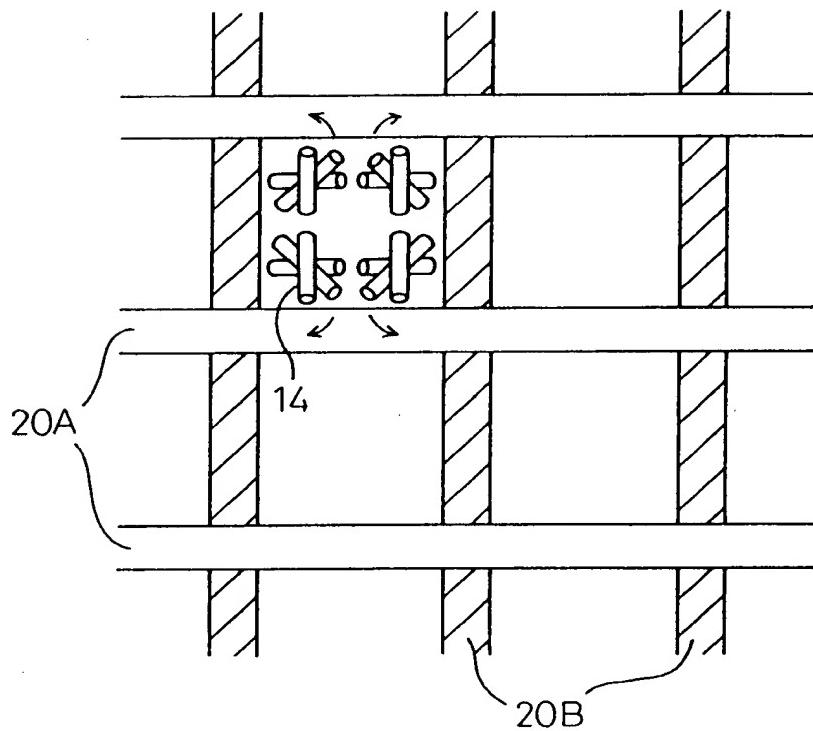


Fig.81B



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Fig. 82



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Fig.83A

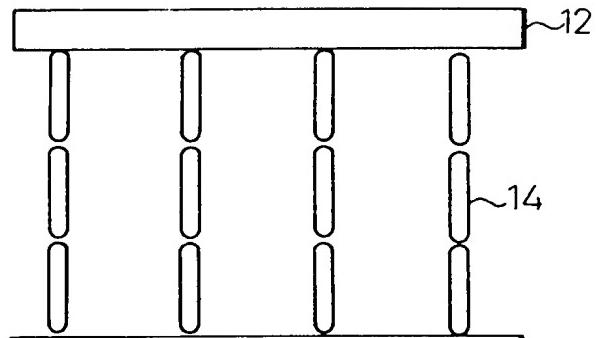


Fig.83B

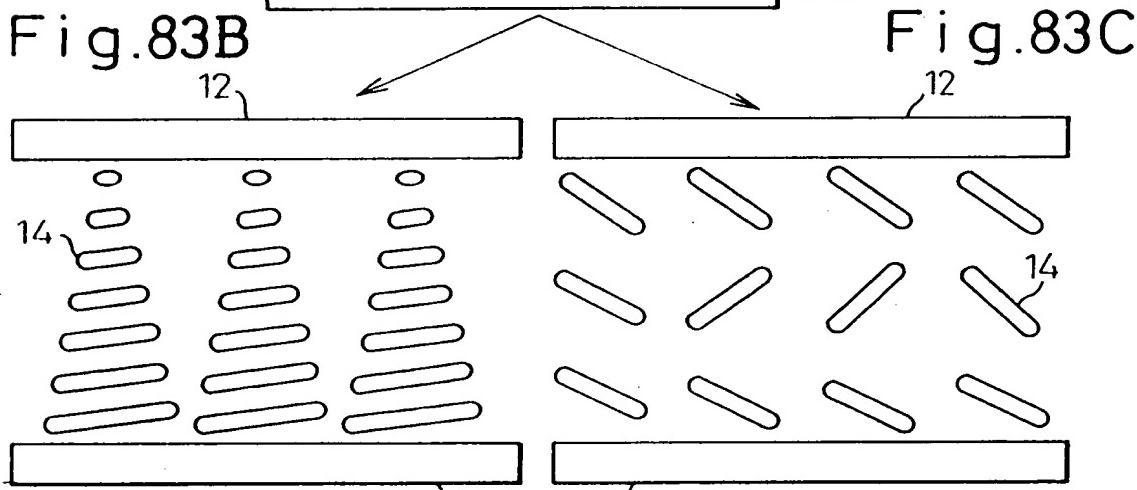


Fig.83C

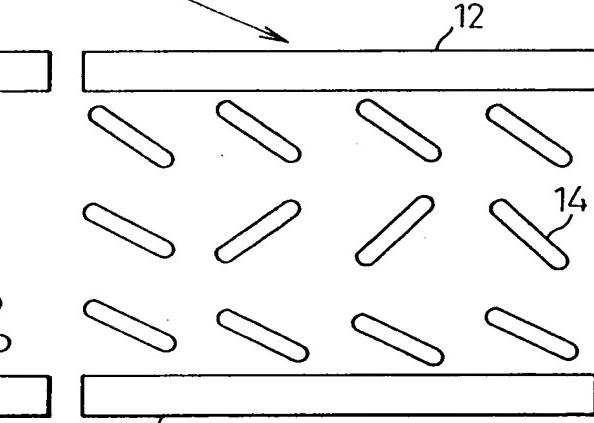
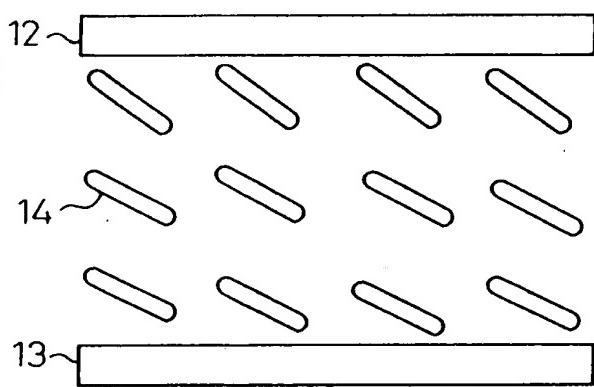
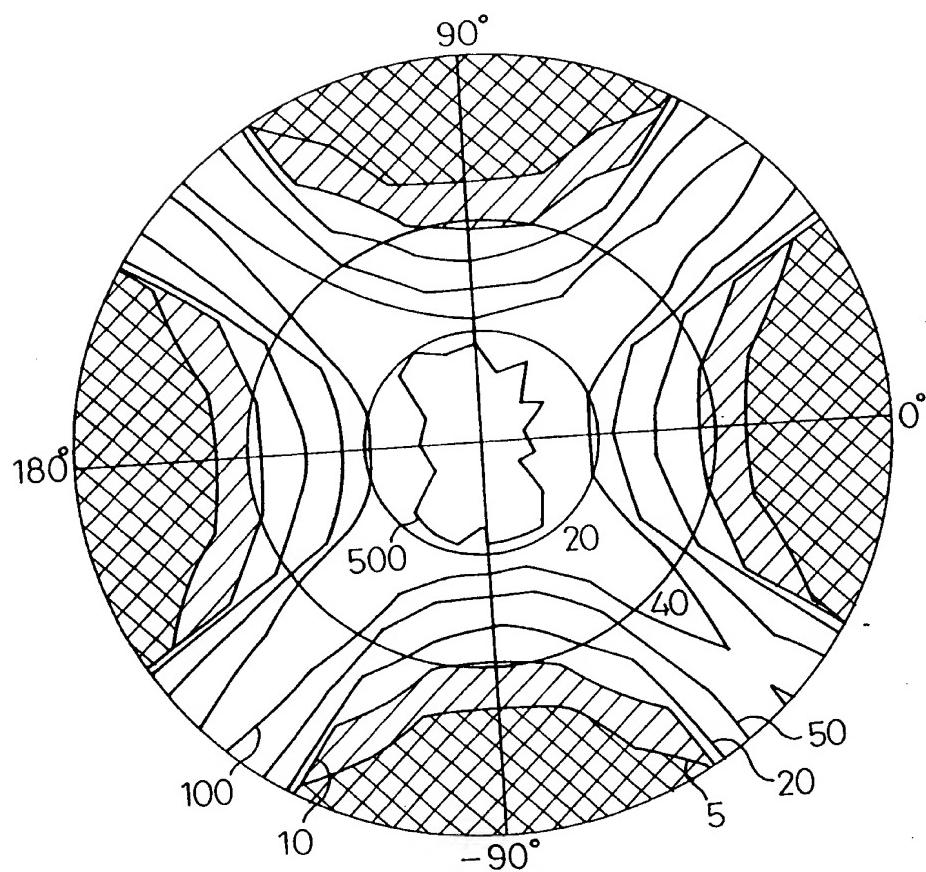


Fig.83D



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Fig. 84



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Fig. 85A

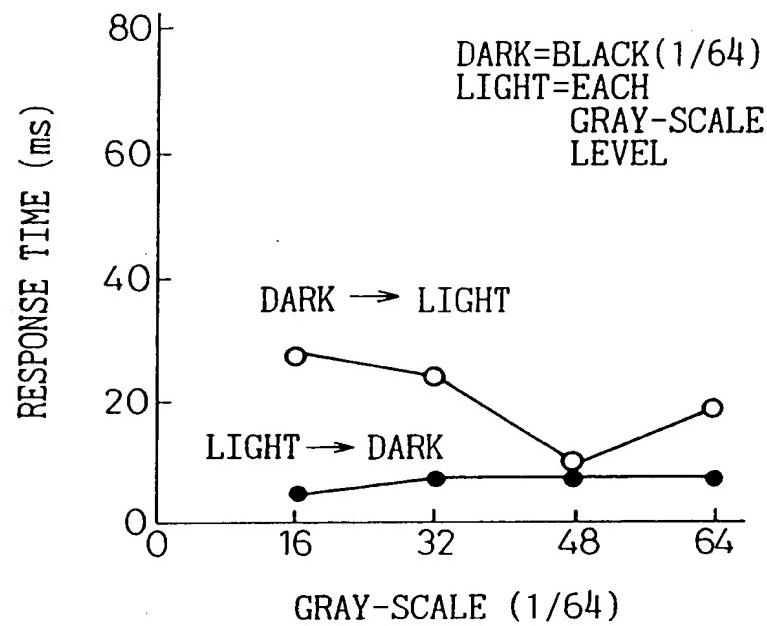
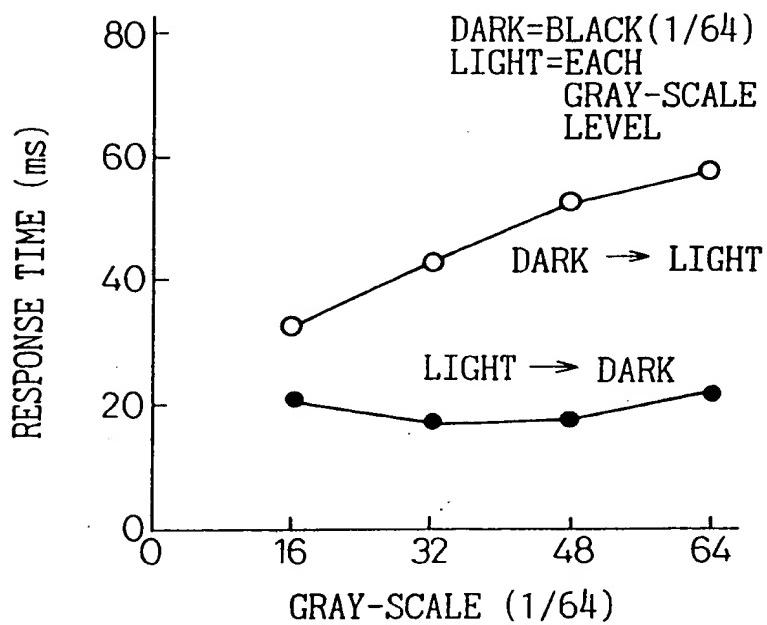


Fig. 85B



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Fig. 85C

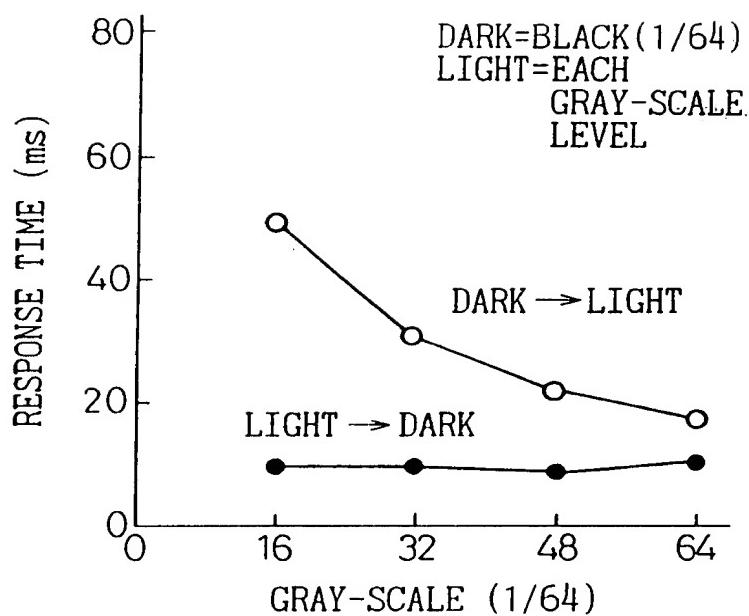
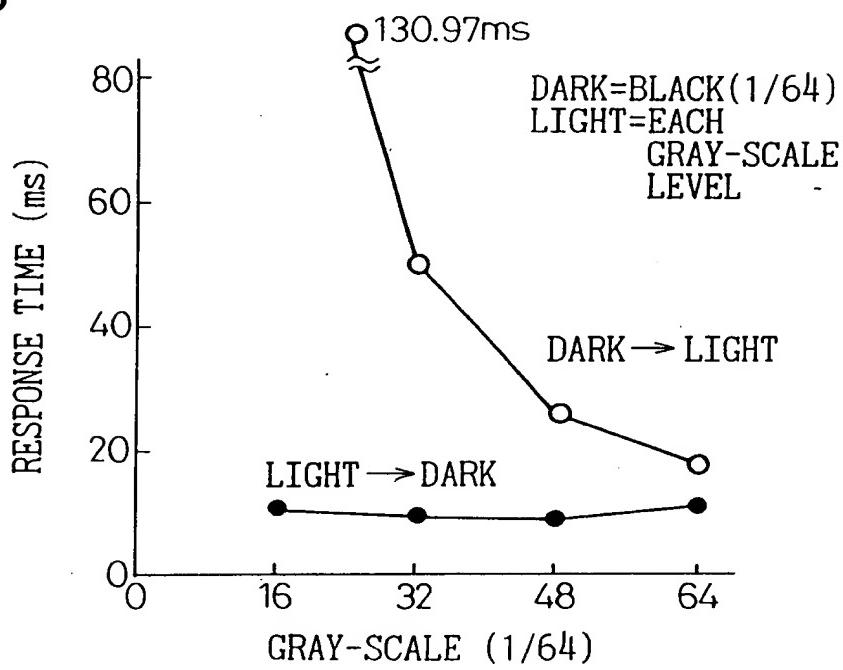


Fig. 85D



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Fig. 86A

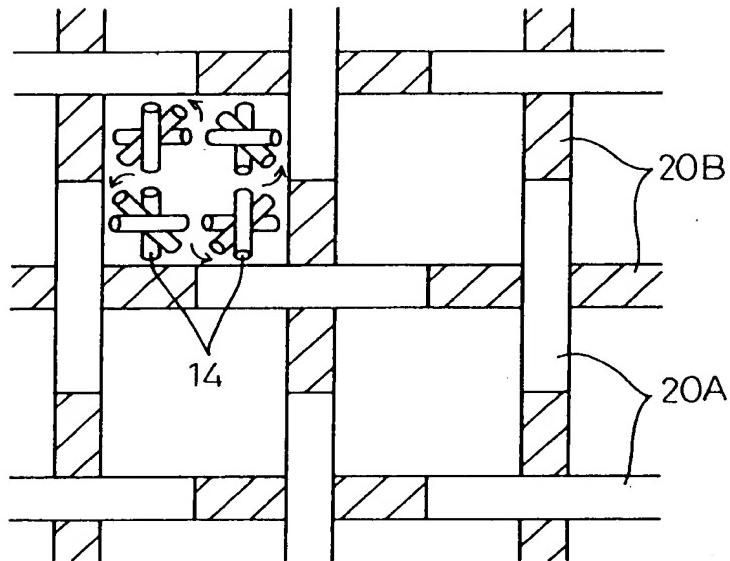
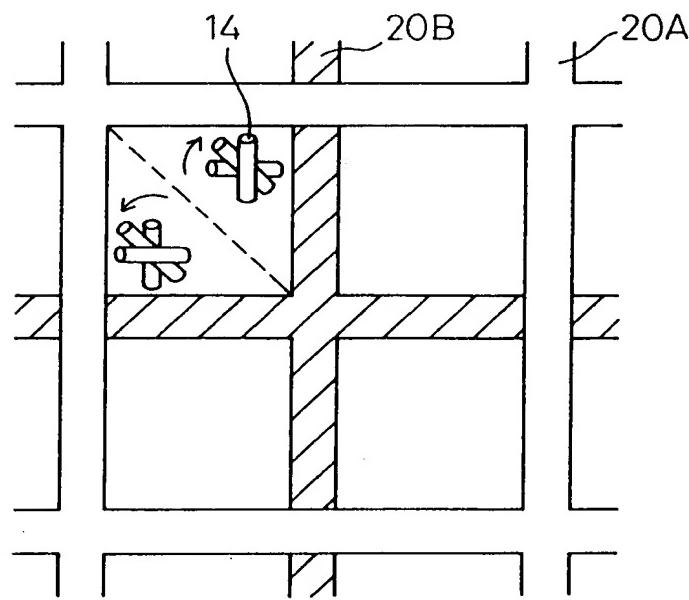
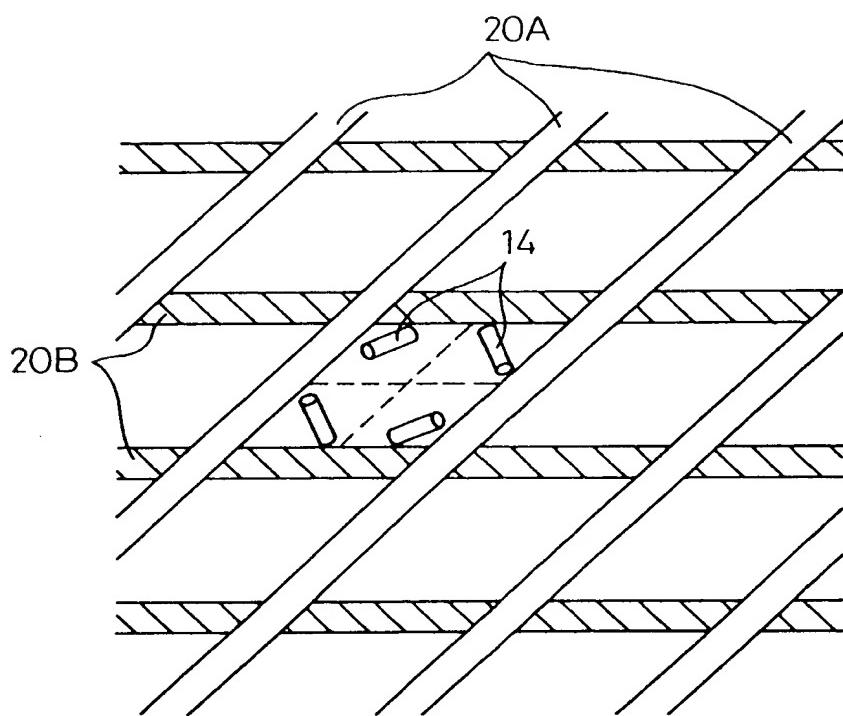


Fig. 86B



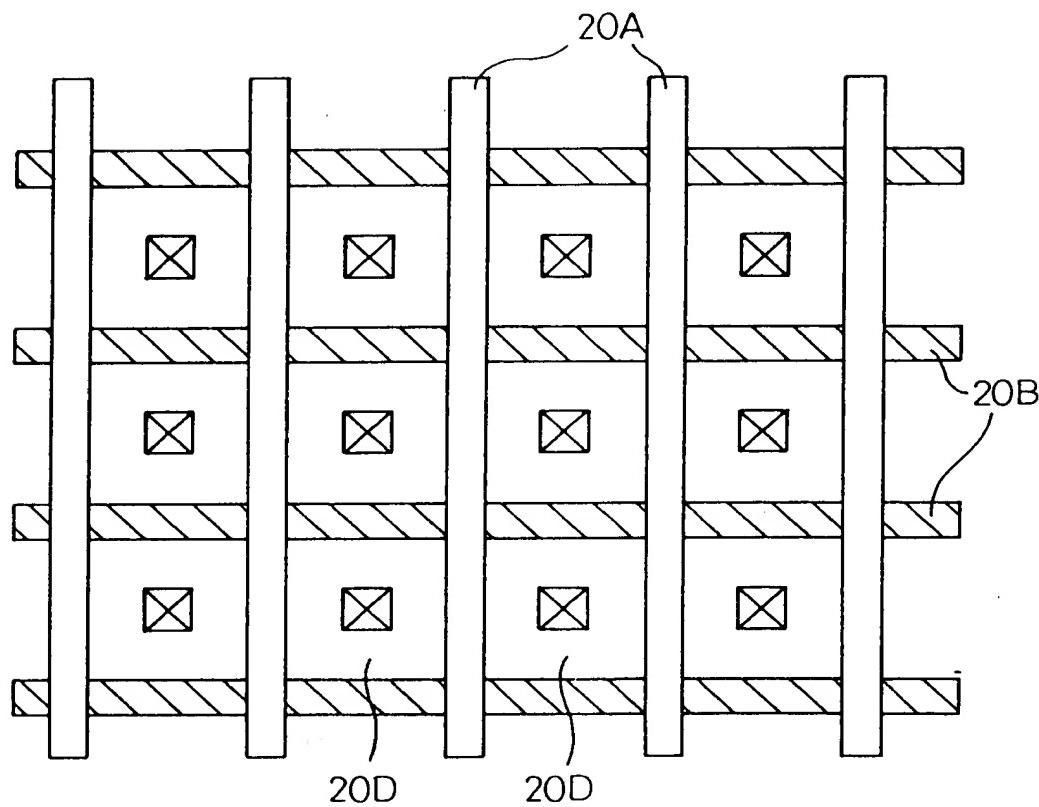
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Fig. 87



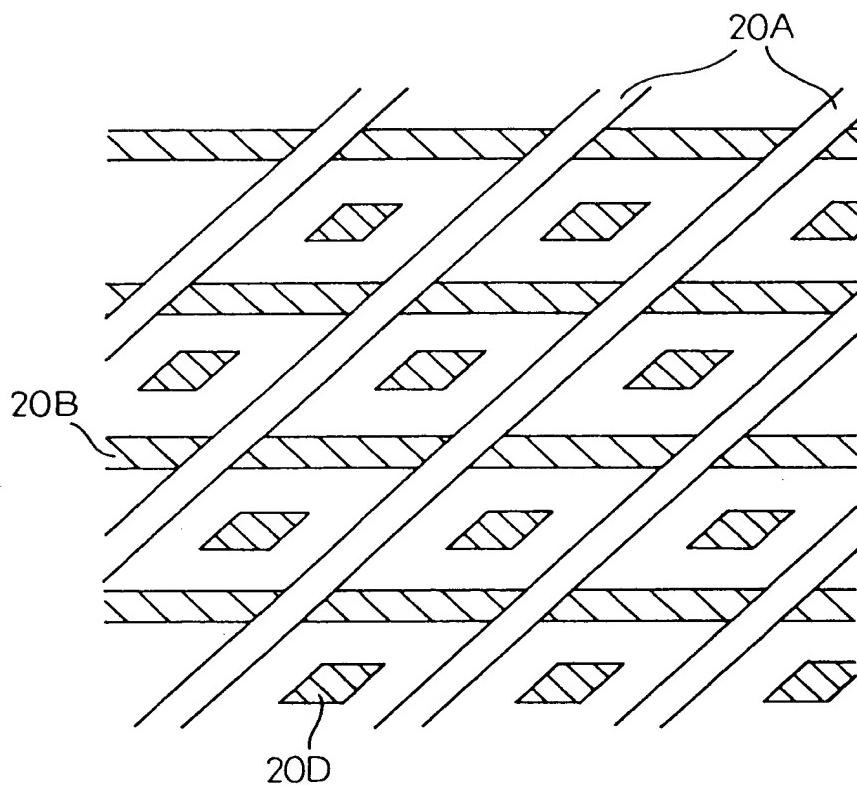
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Fig. 88



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Fig. 89



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Fig.90A

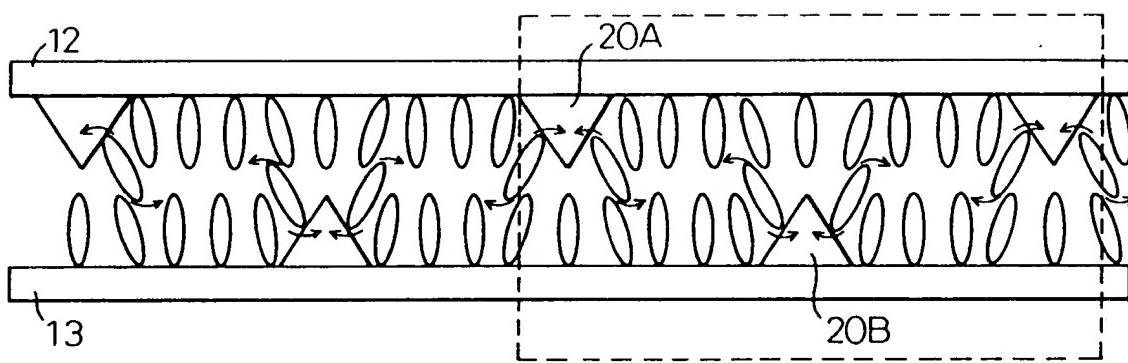
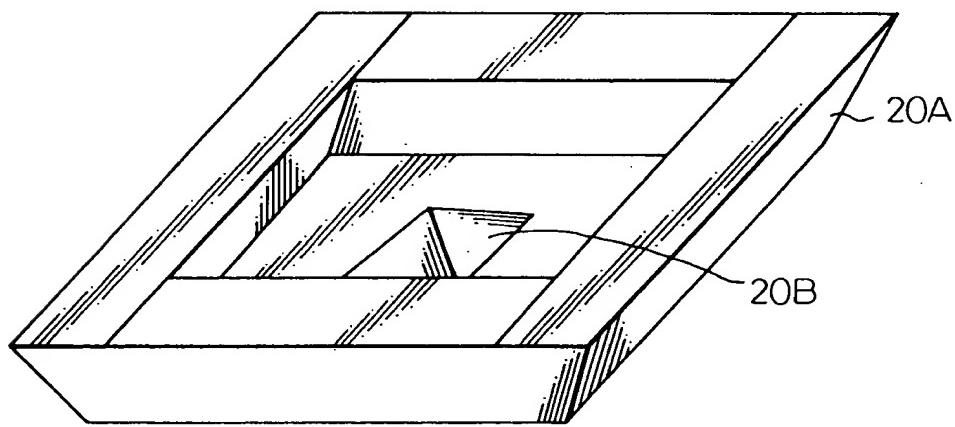
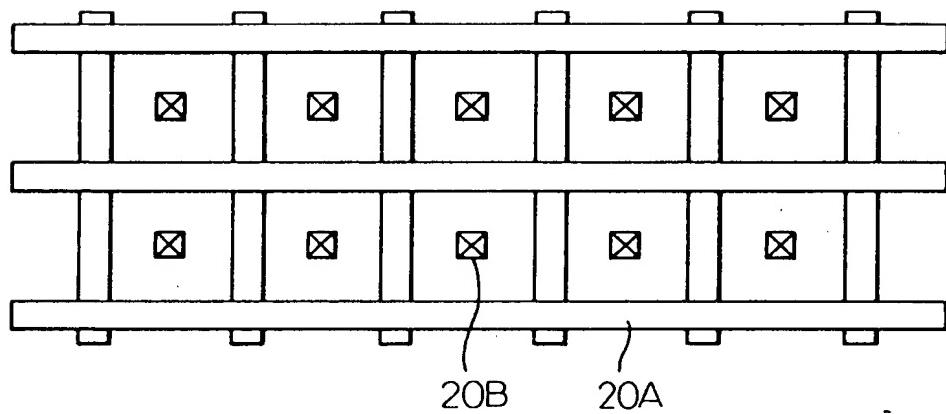


Fig.90B



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Fig. 91



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Fig.92A

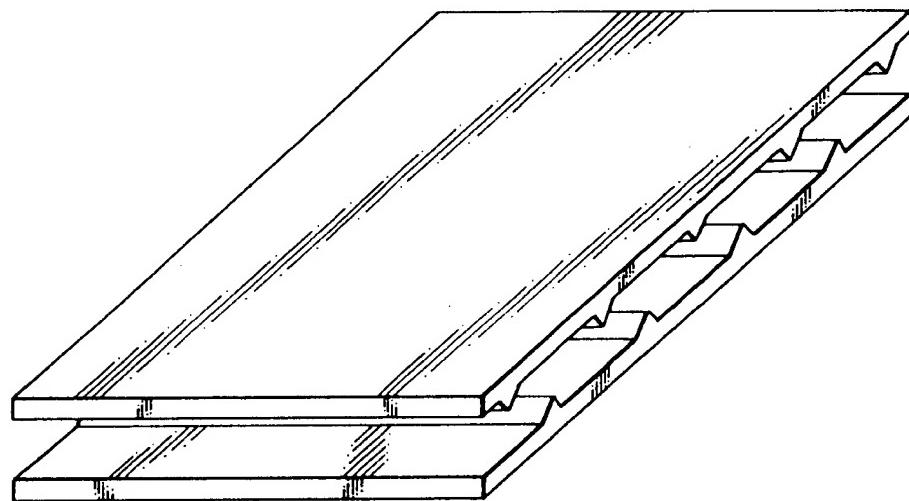
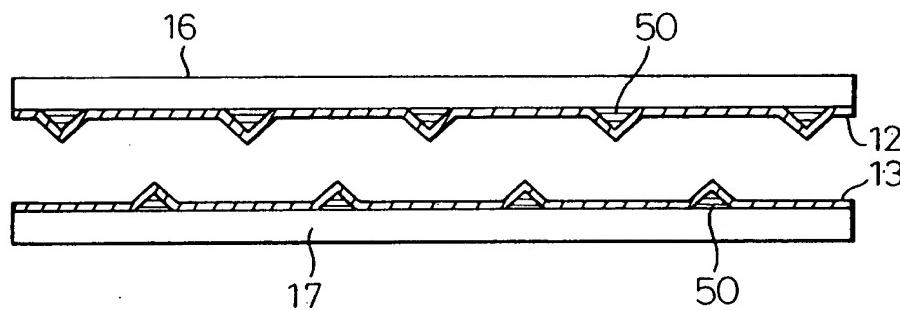
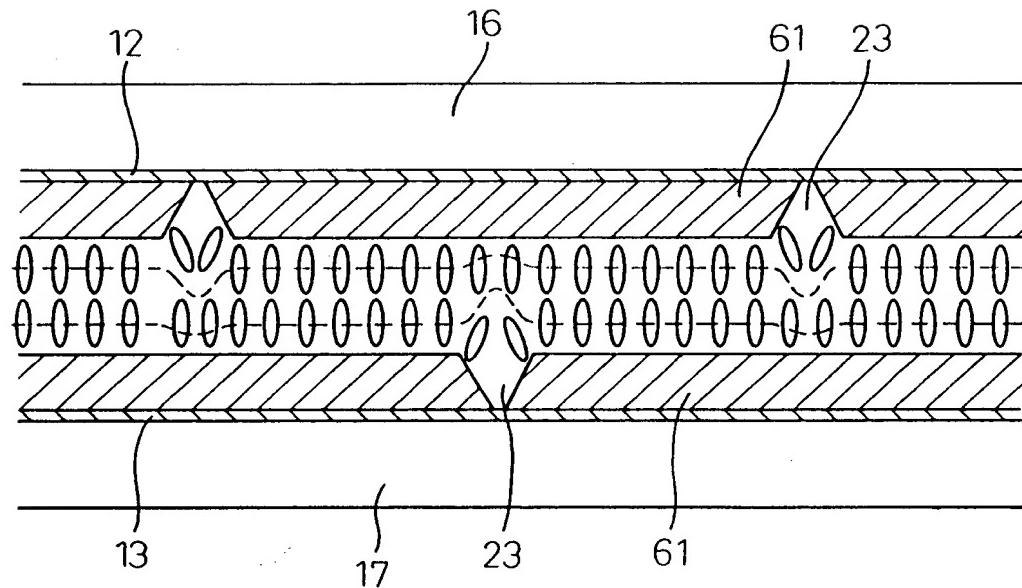


Fig.92B



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Fig. 93



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Fig. 94

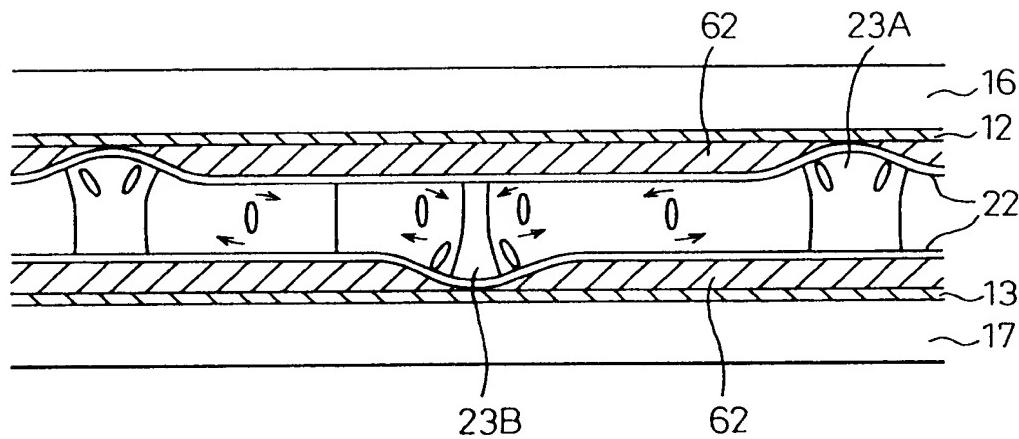
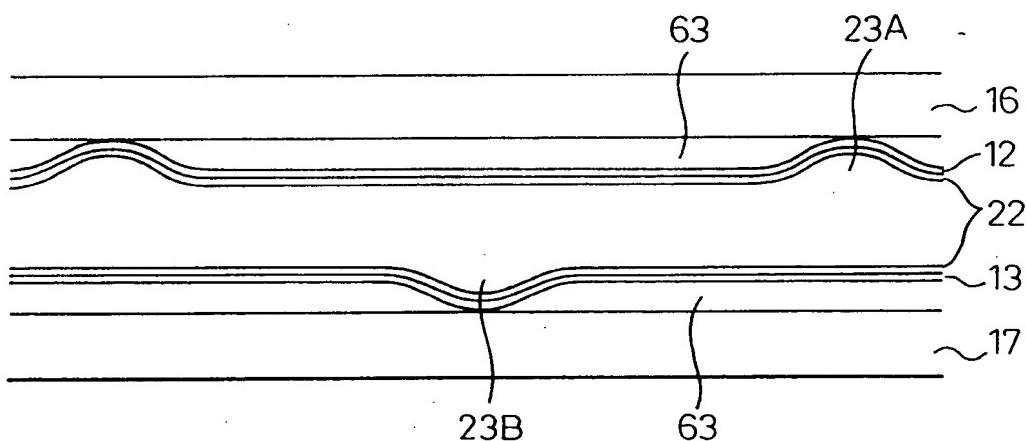


Fig. 95



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Fig. 96

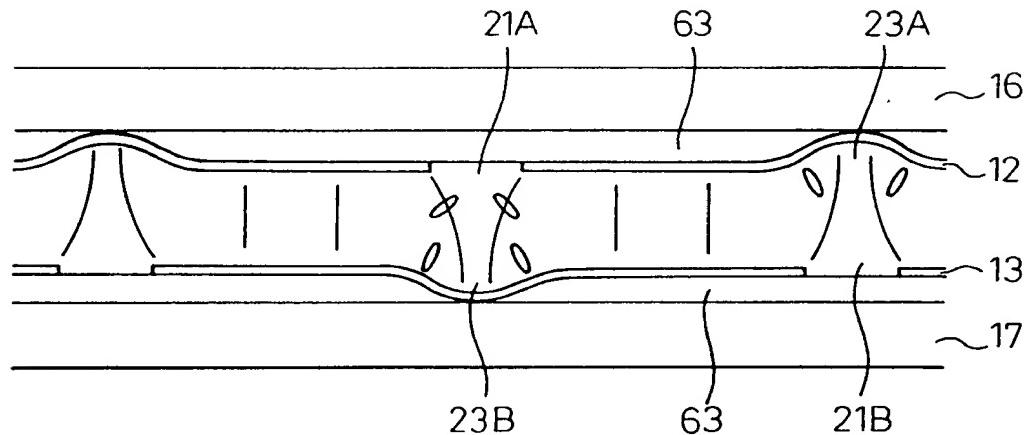


Fig. 97

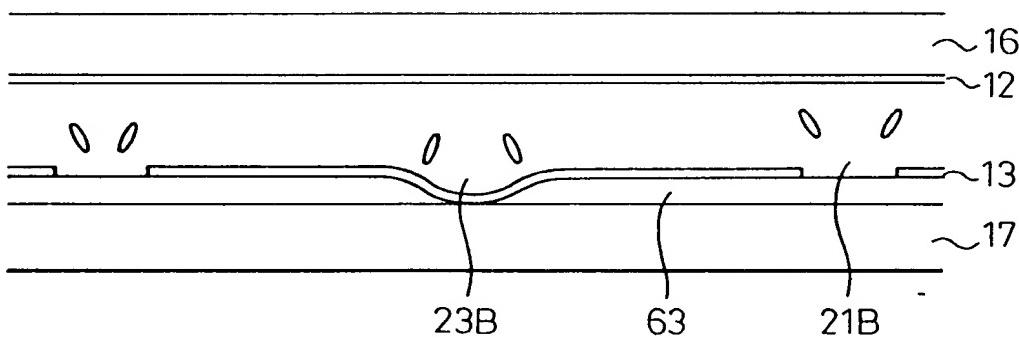
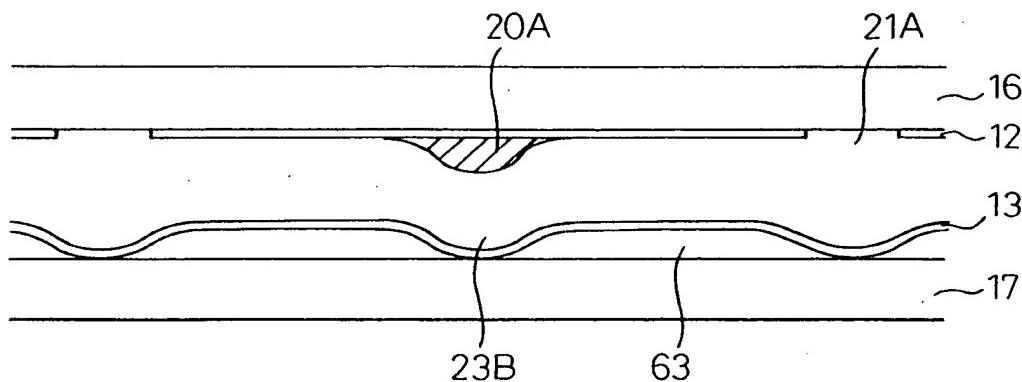


Fig. 98



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Fig.99A

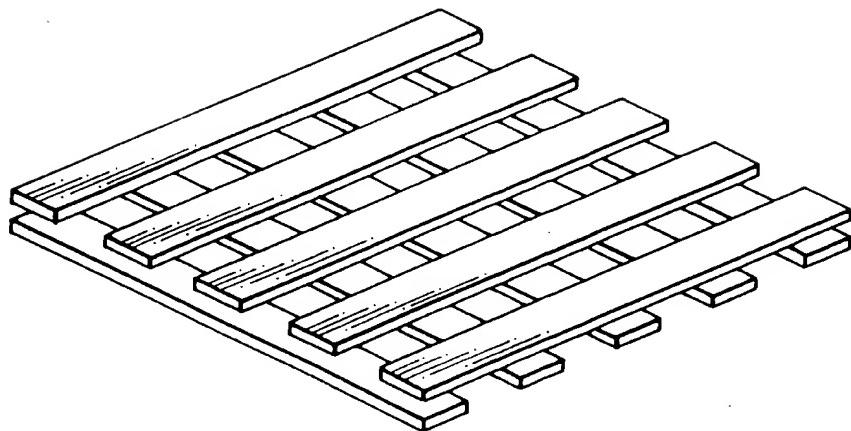
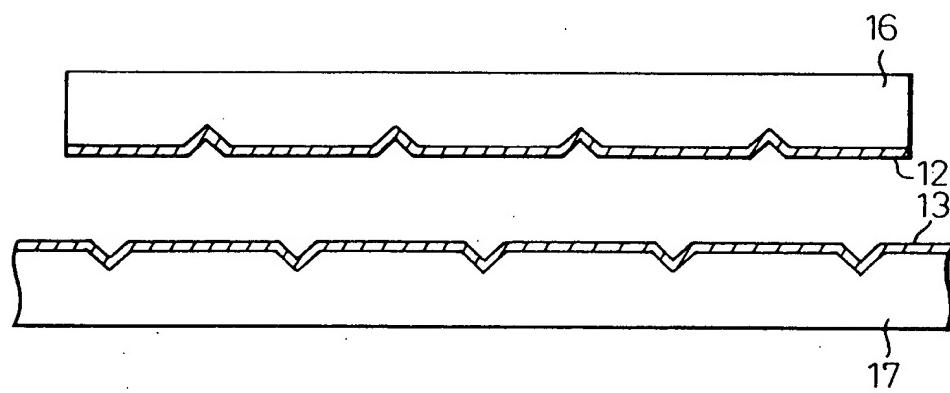


Fig.99B



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Fig.100A

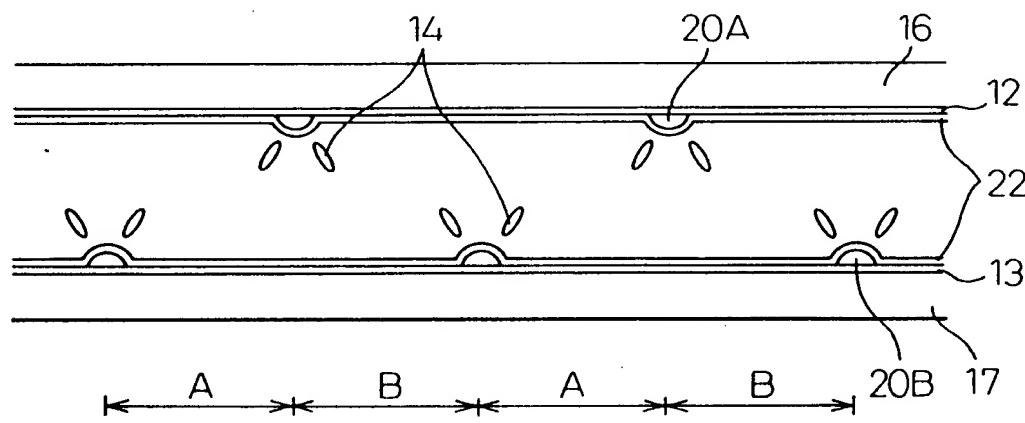
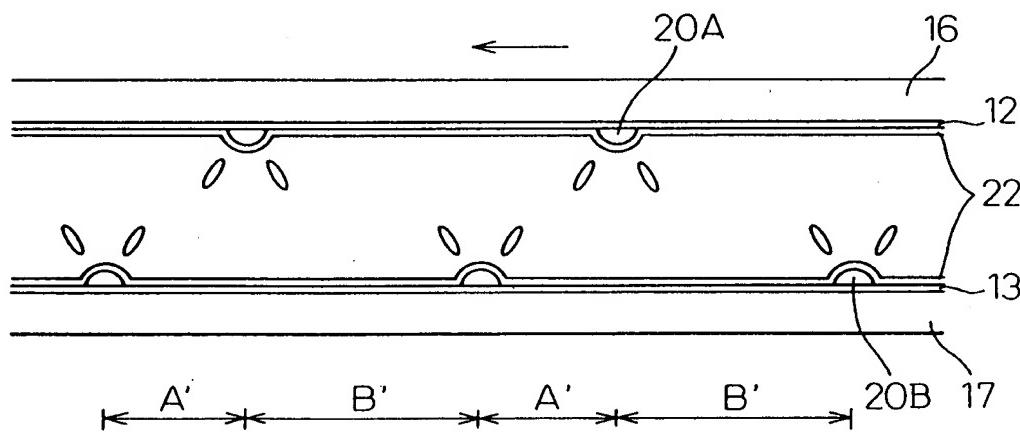


Fig.100B



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Fig. 101A

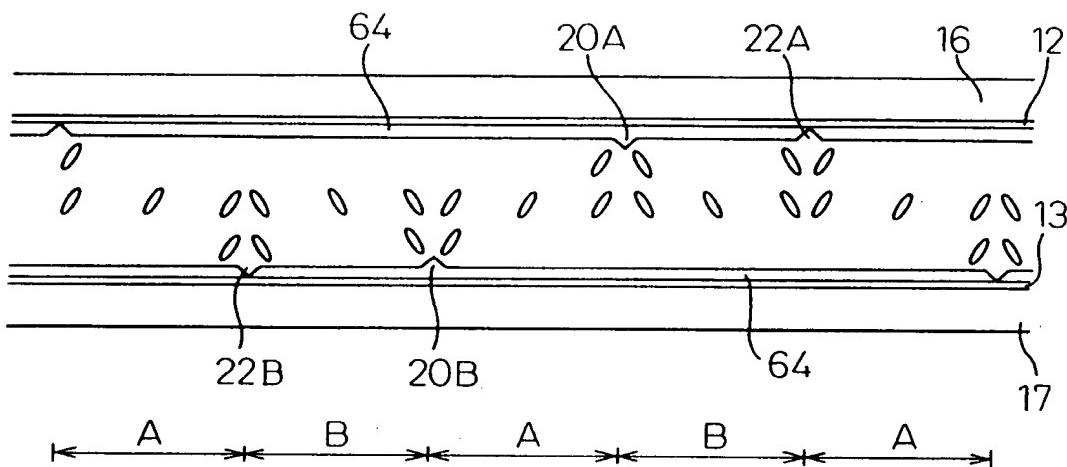
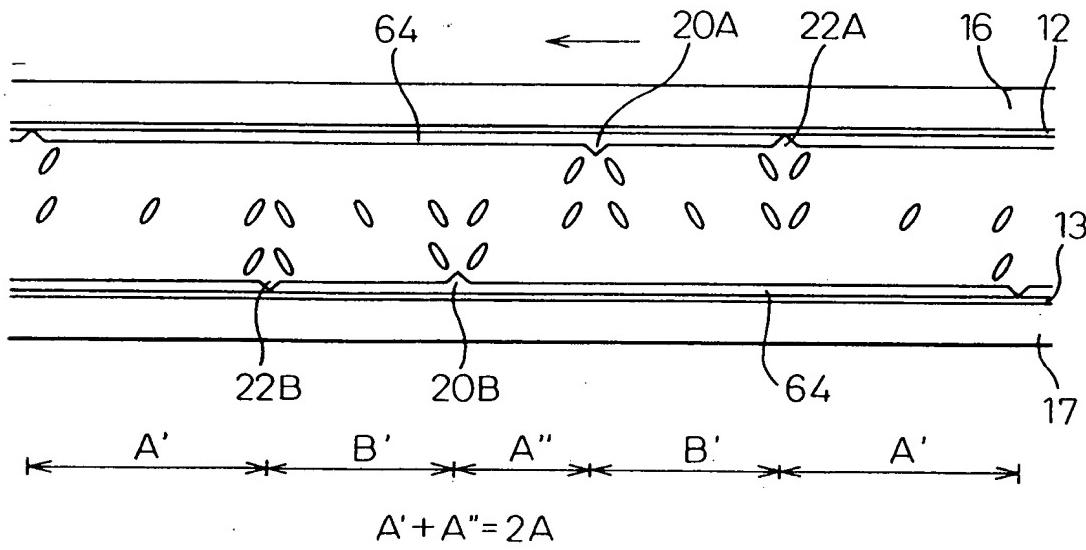
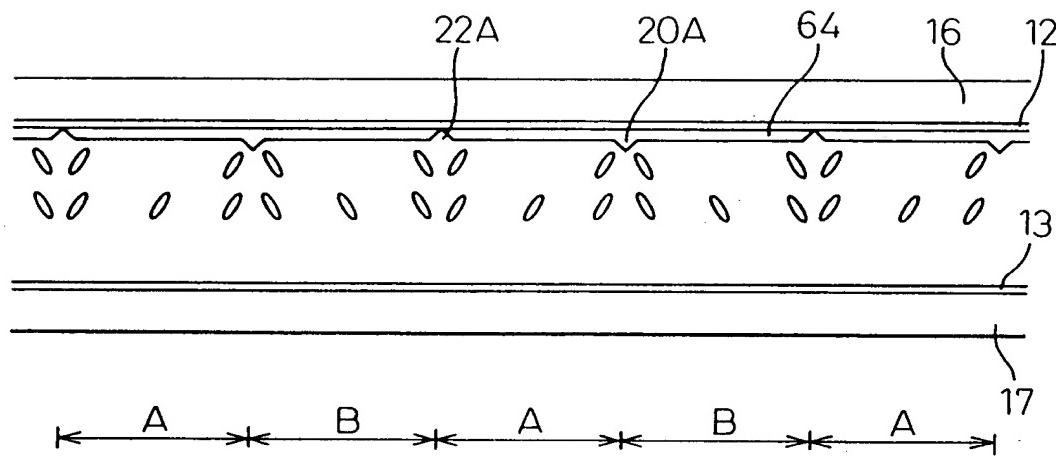


Fig. 101B



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Fig.102



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Fig. 103A

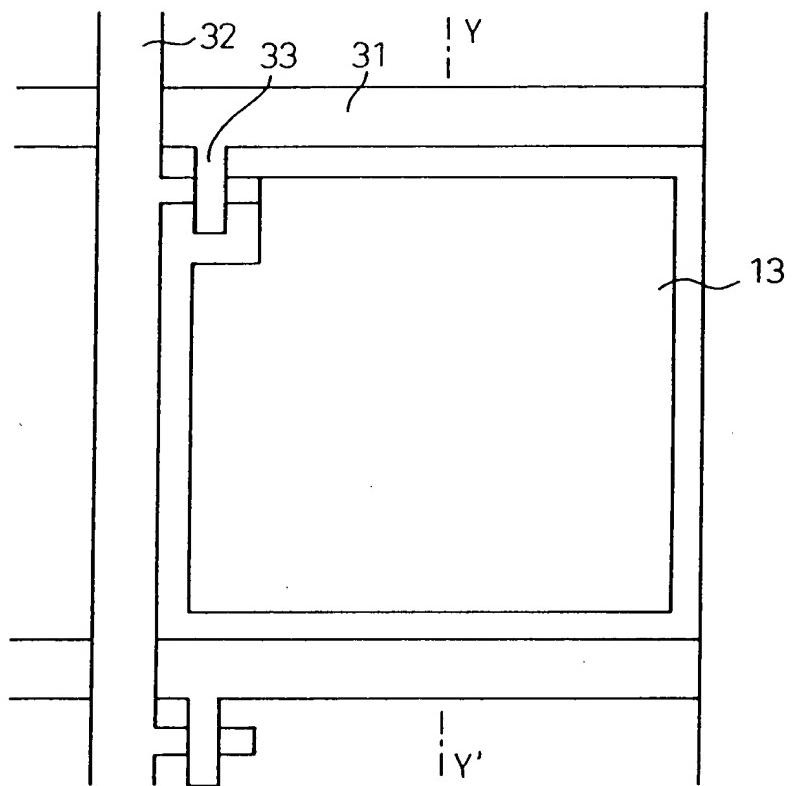
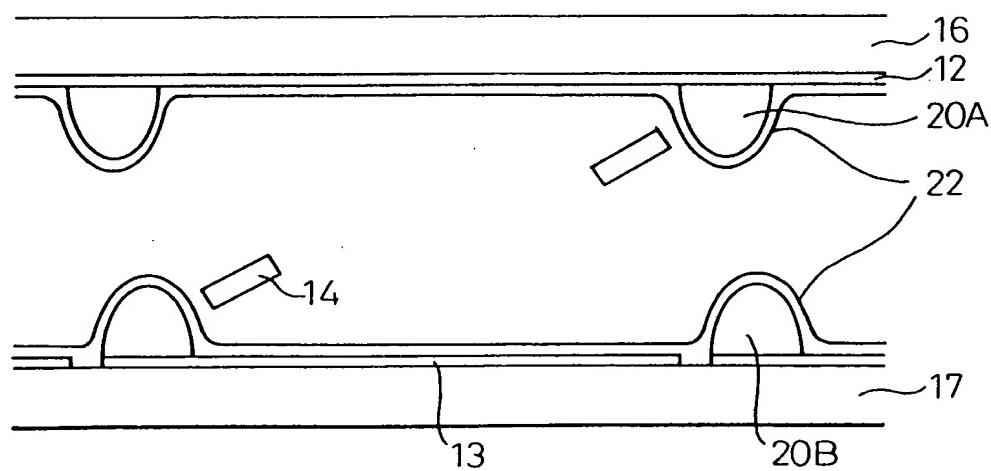
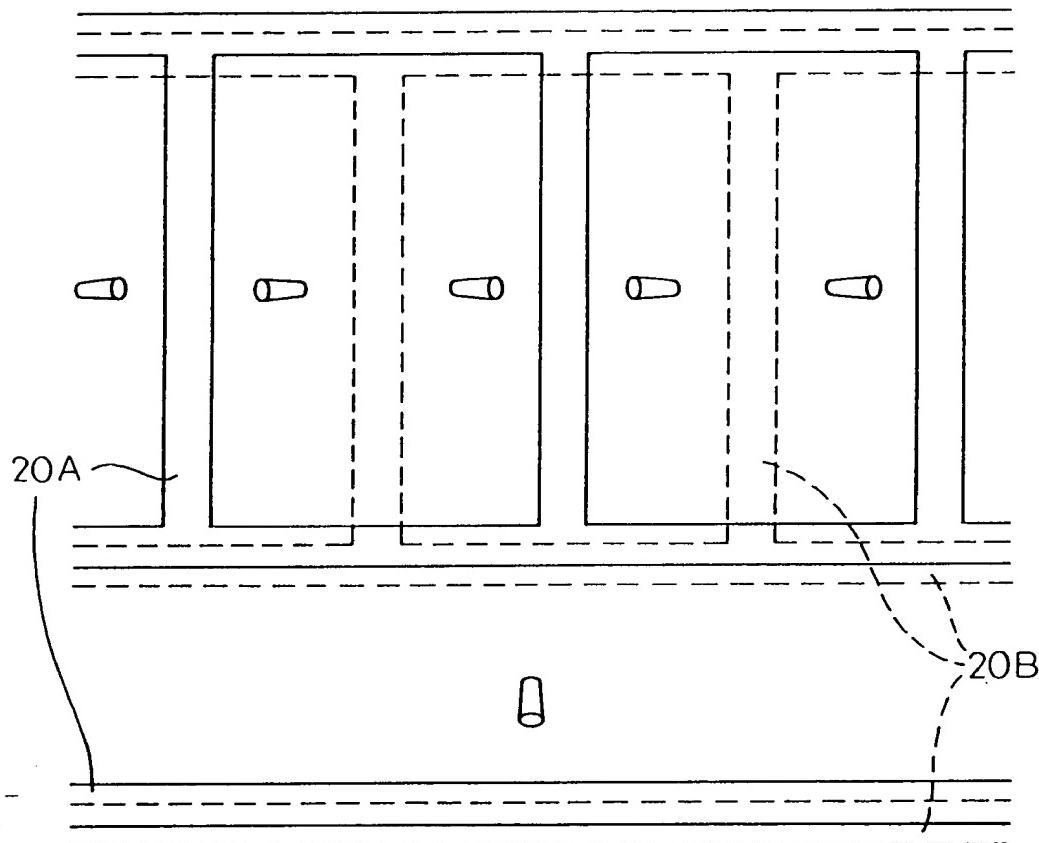


Fig. 103B

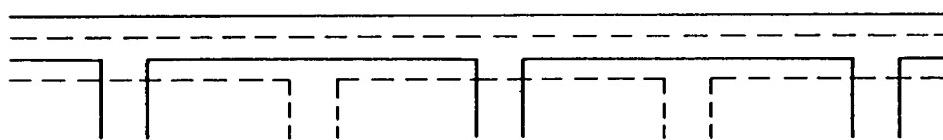


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Fig.104



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Fig.105A

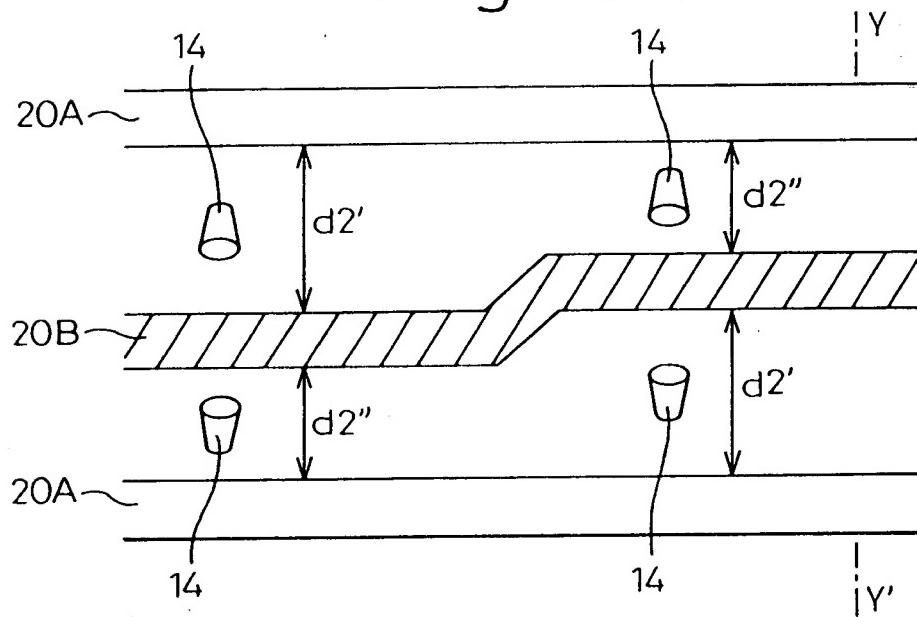
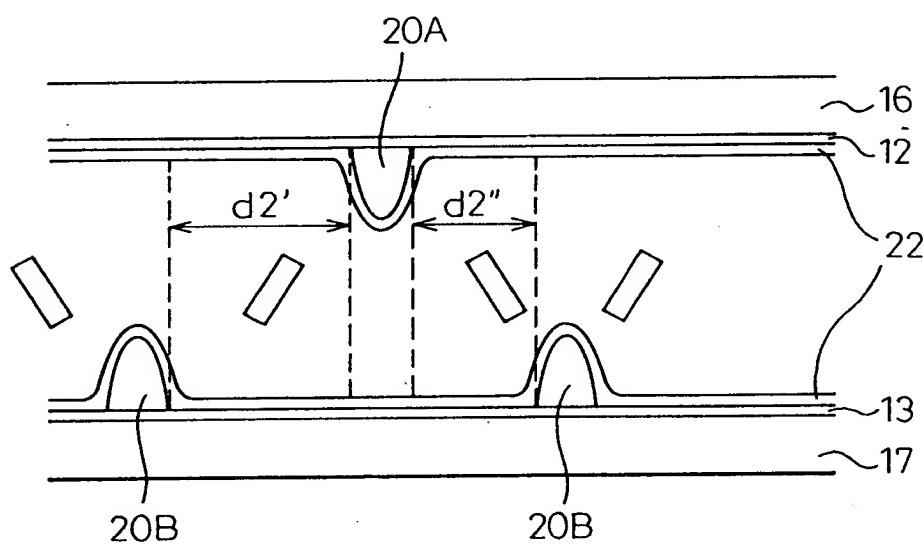


Fig.105B



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Fig. 106

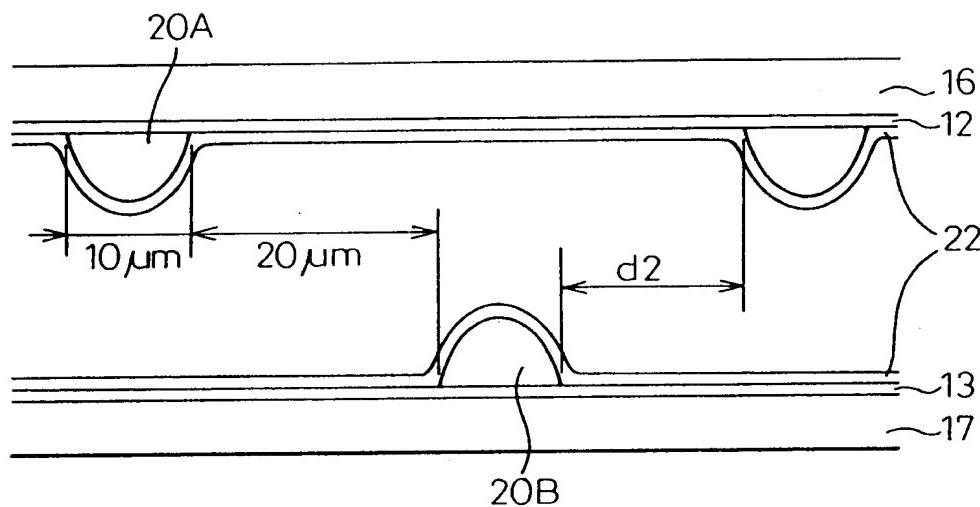
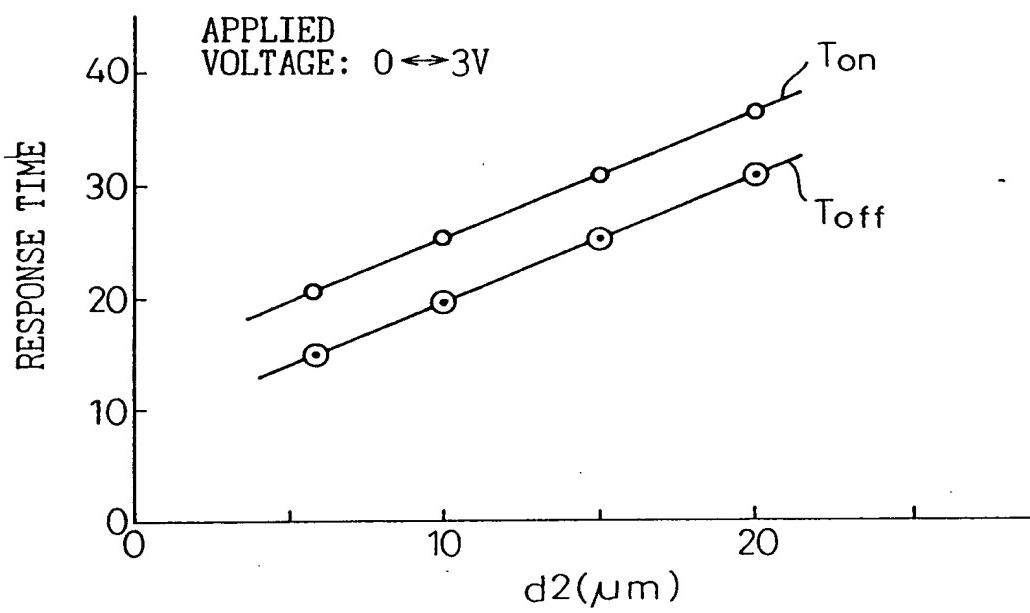


Fig. 107



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Fig. 108A

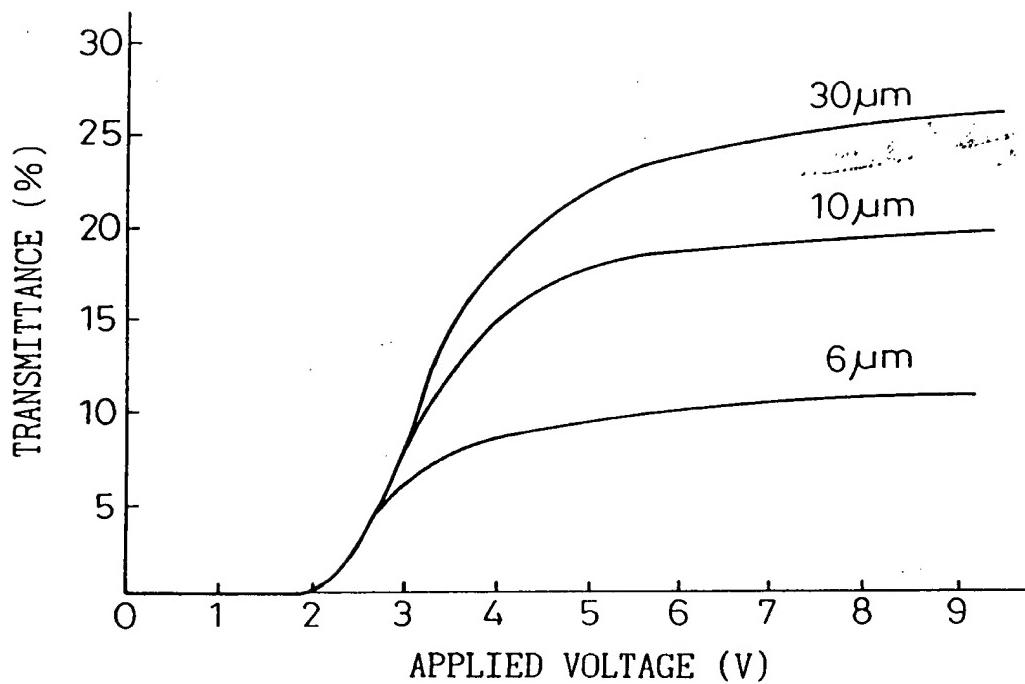
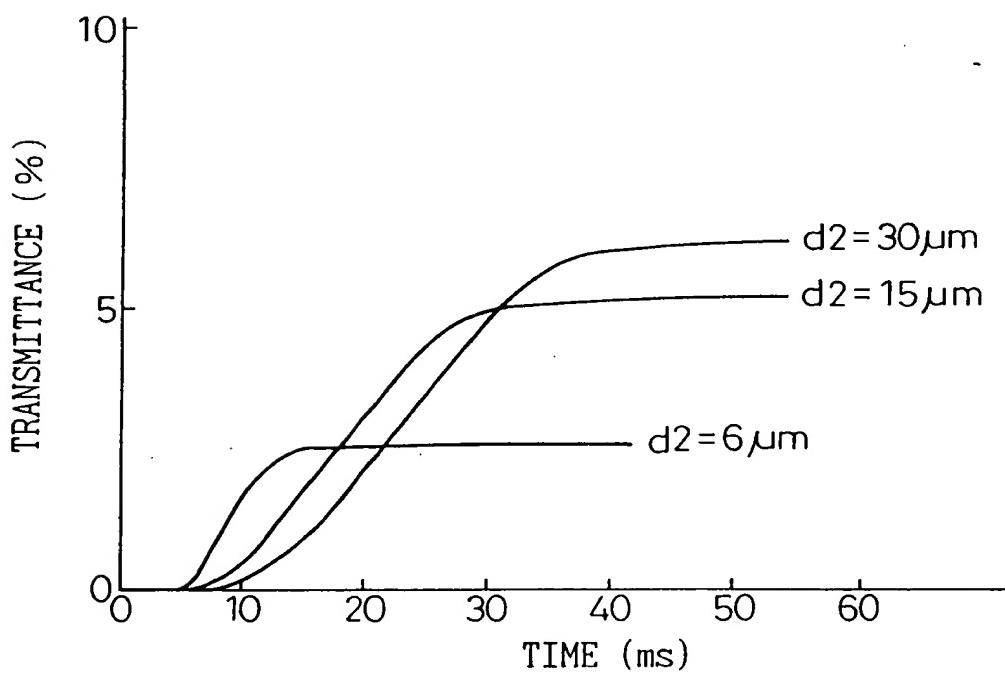


Fig. 108B



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Fig.109A

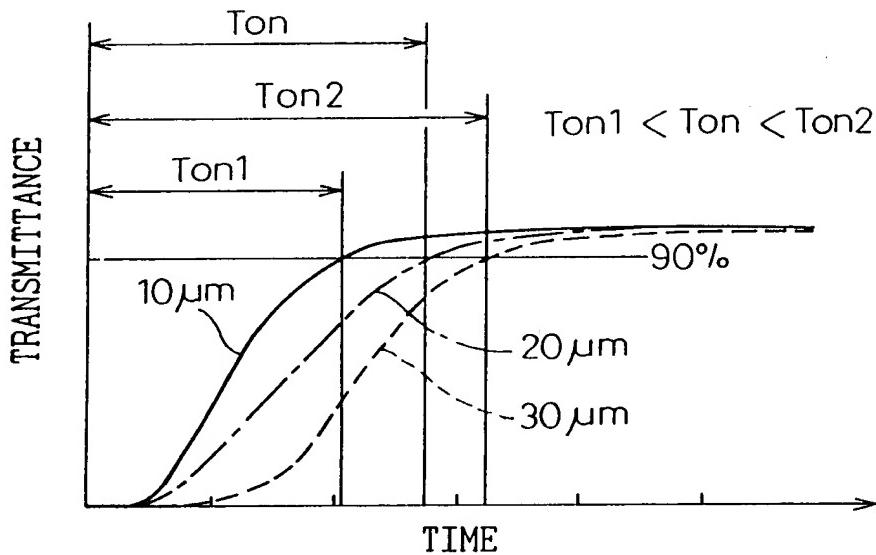
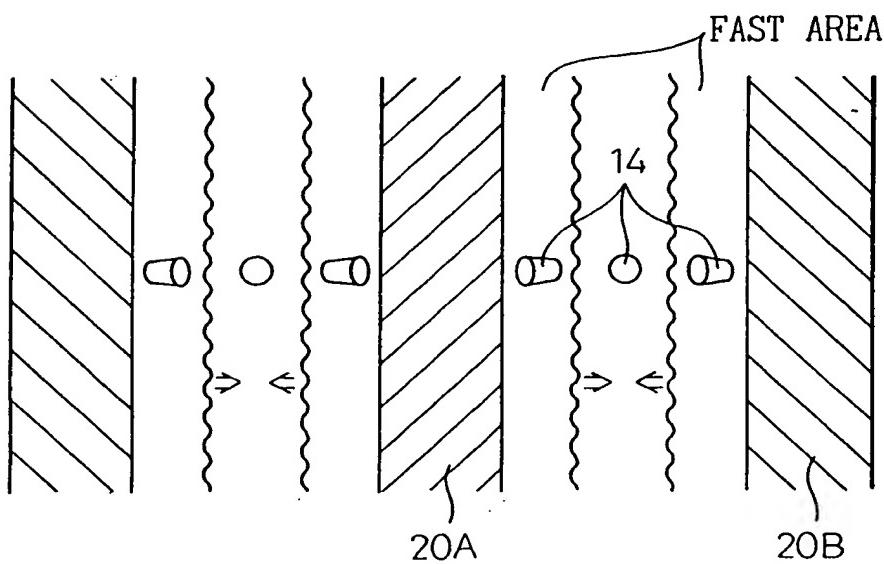
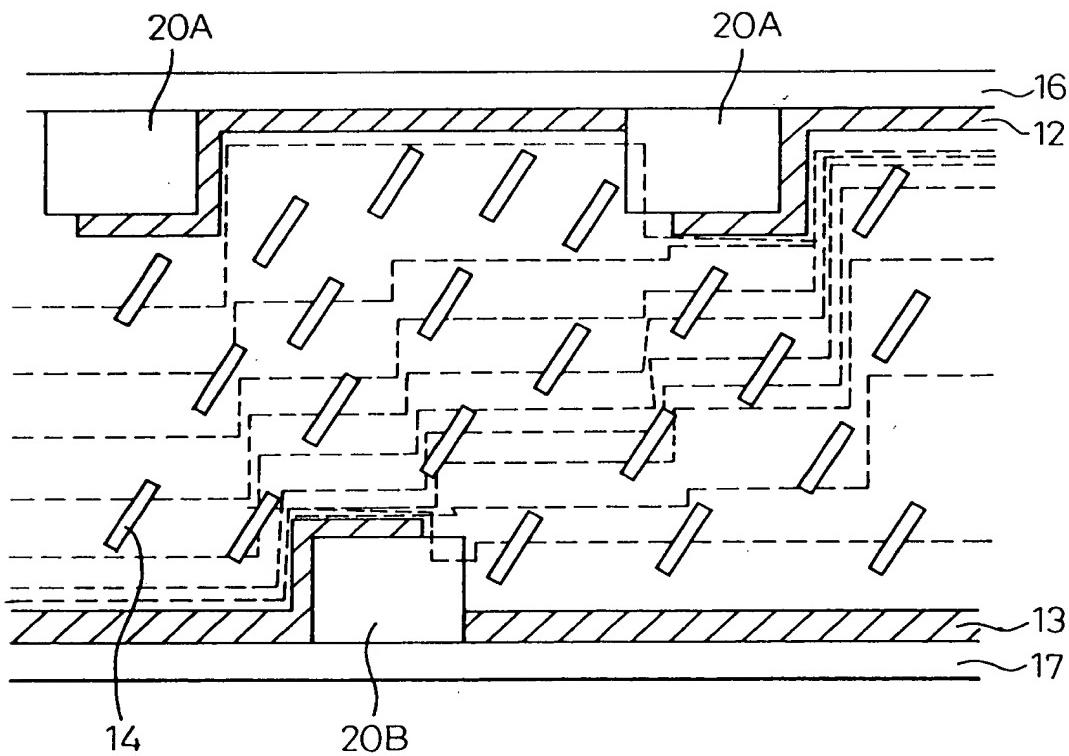


Fig.109B



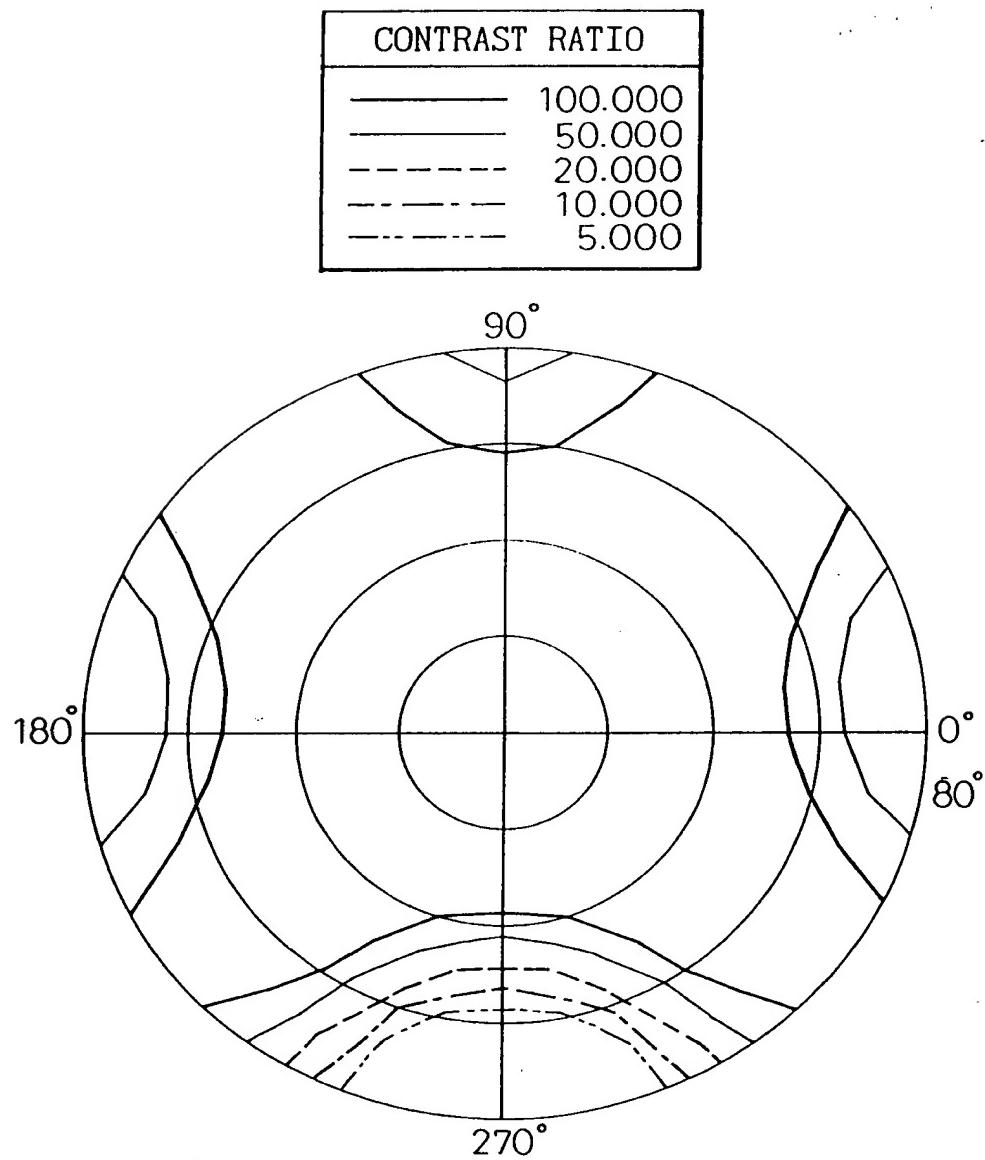
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Fig. 110



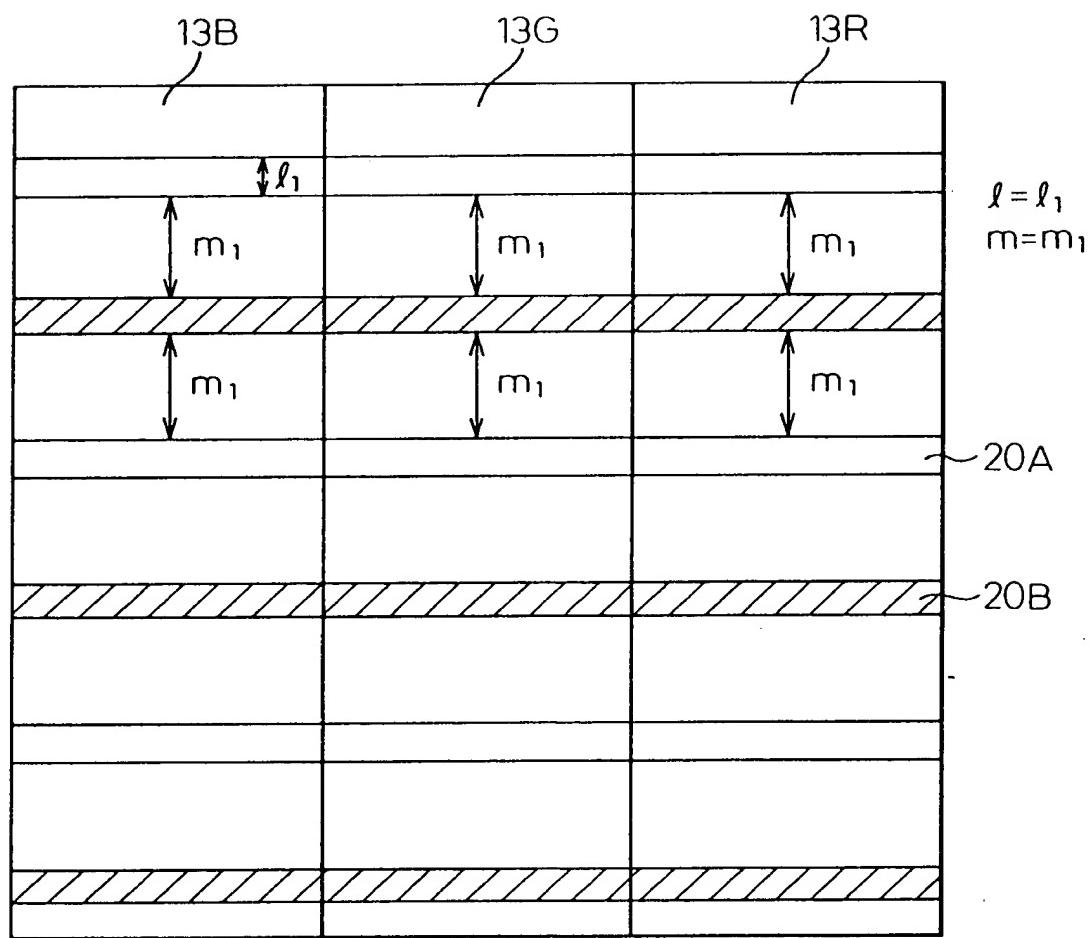
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Fig. 111



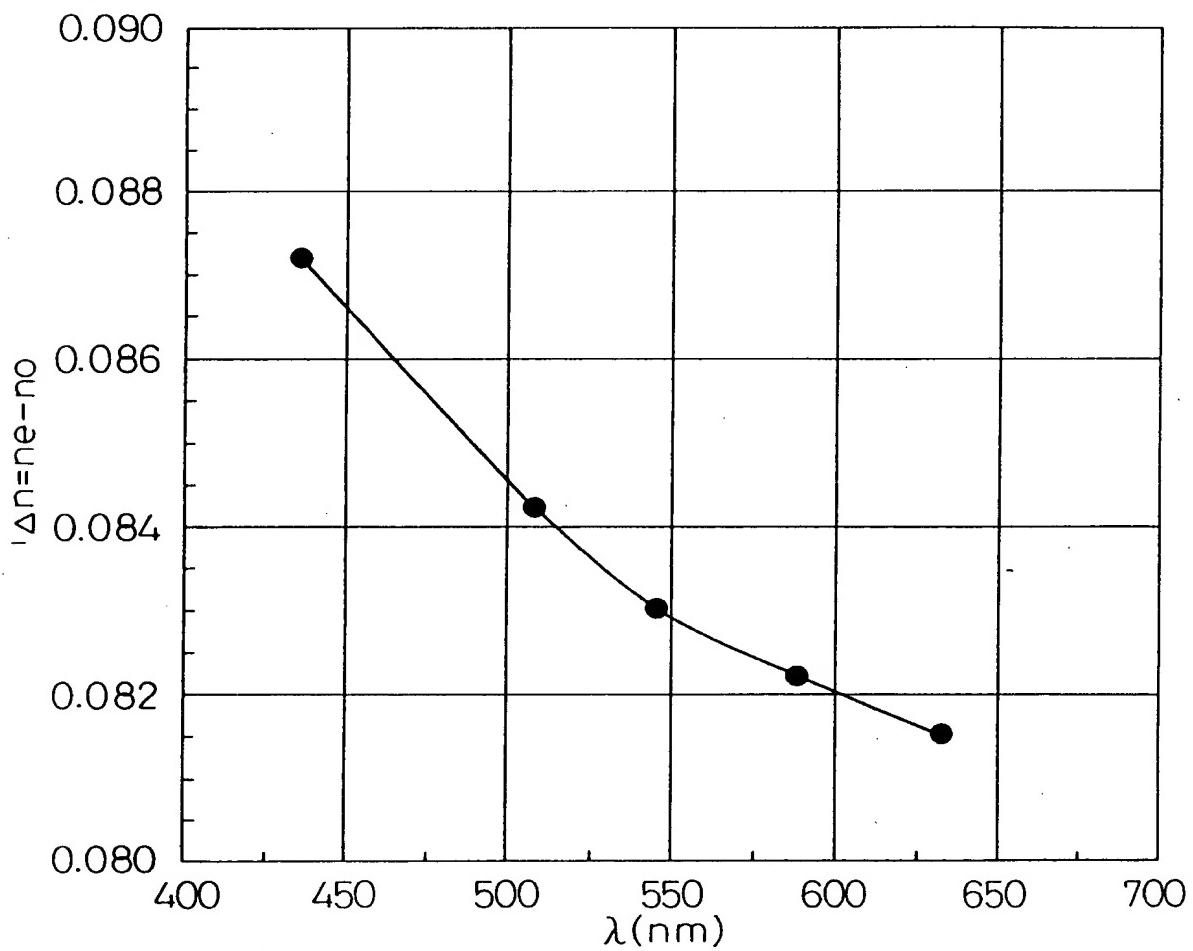
108
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Fig.112



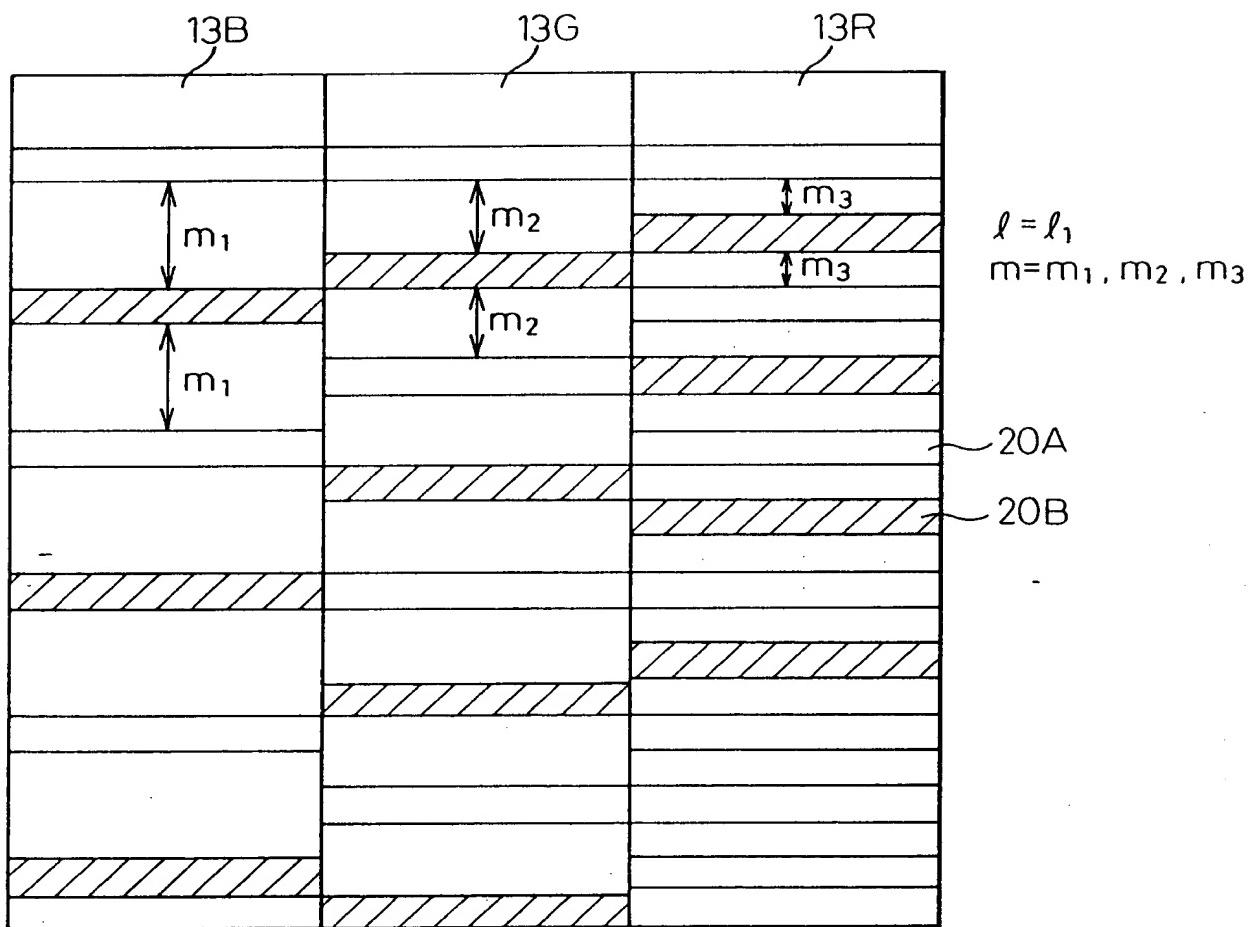
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Fig. 113



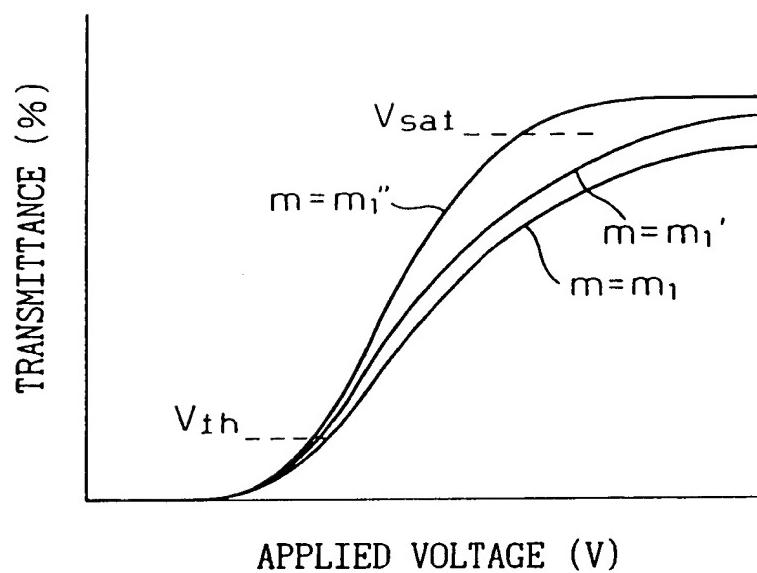
110/246

Fig.114



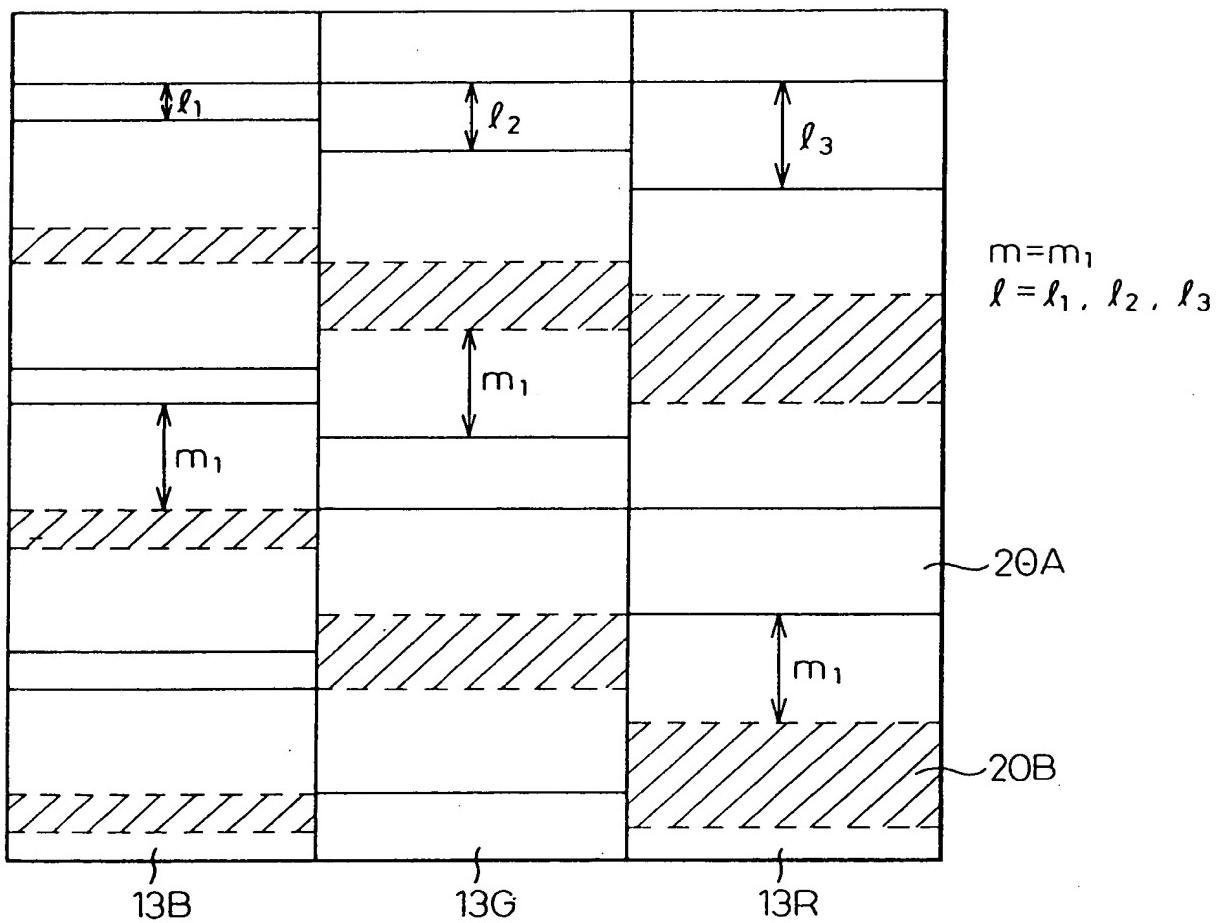
111/246

Fig. 115



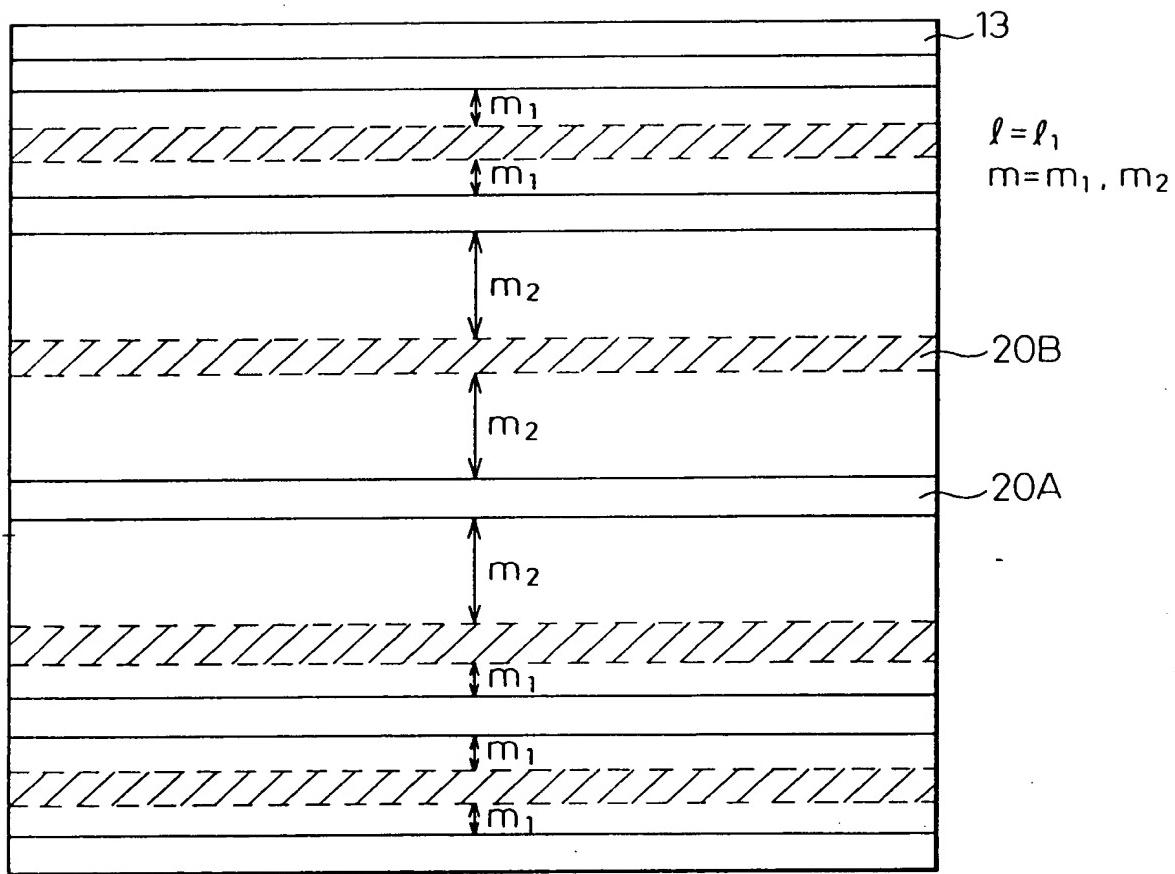
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246

Fig. 116



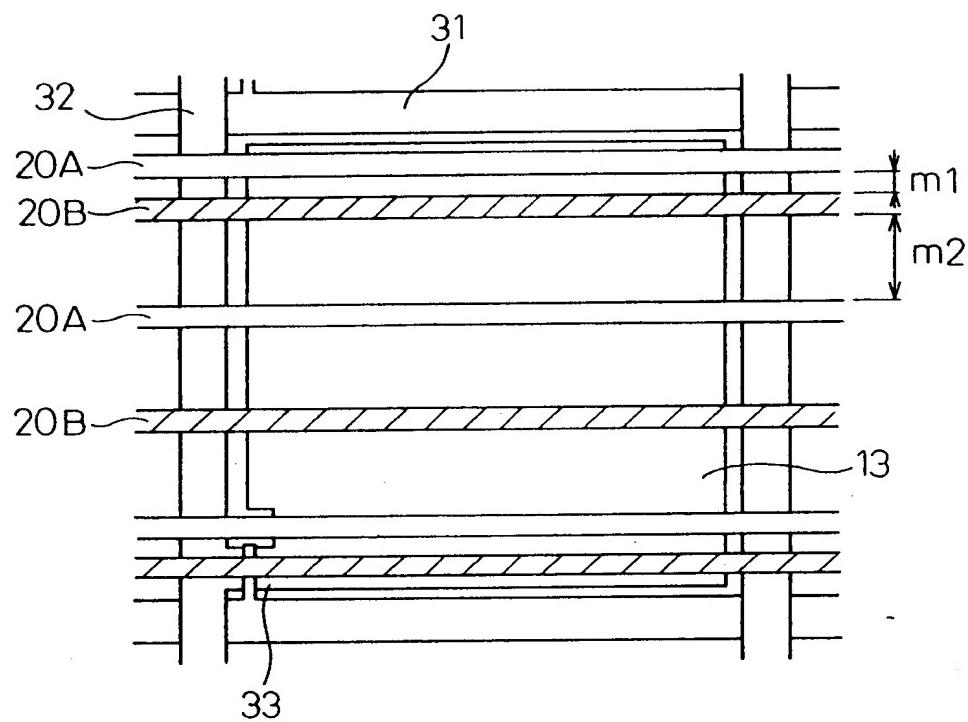
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Fig.117



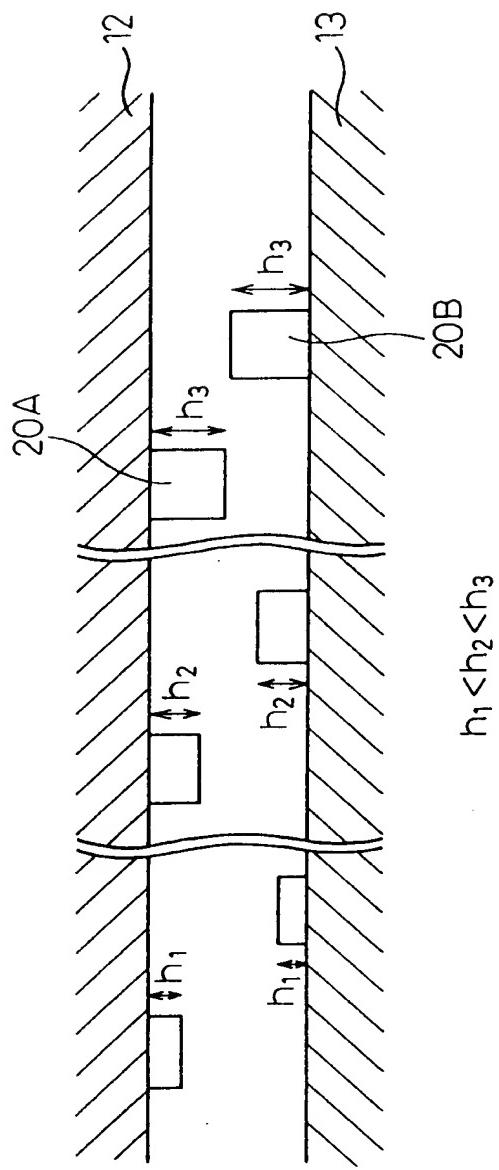
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Fig.118



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Fig. 119



$$h_1 < h_2 < h_3$$

Fig. 120

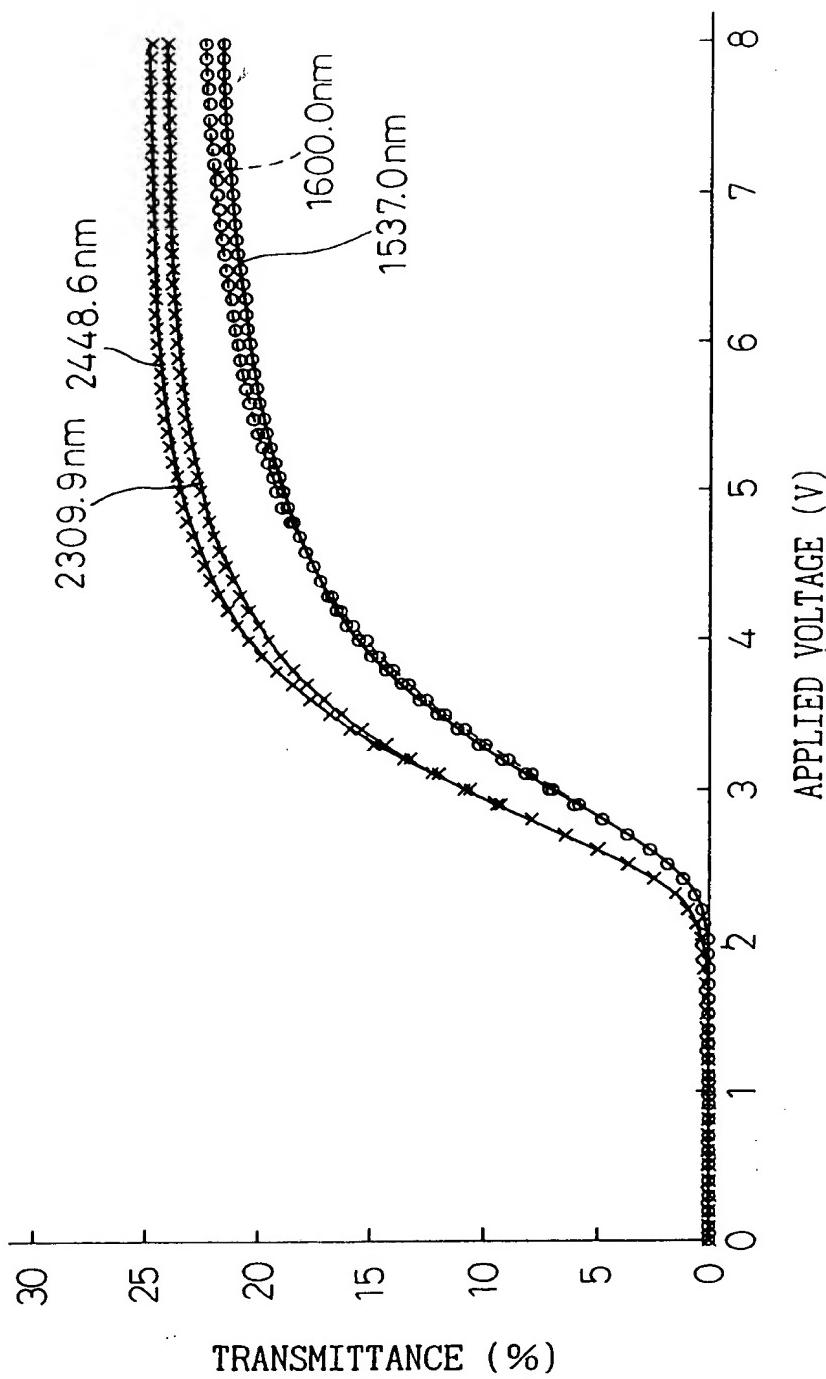
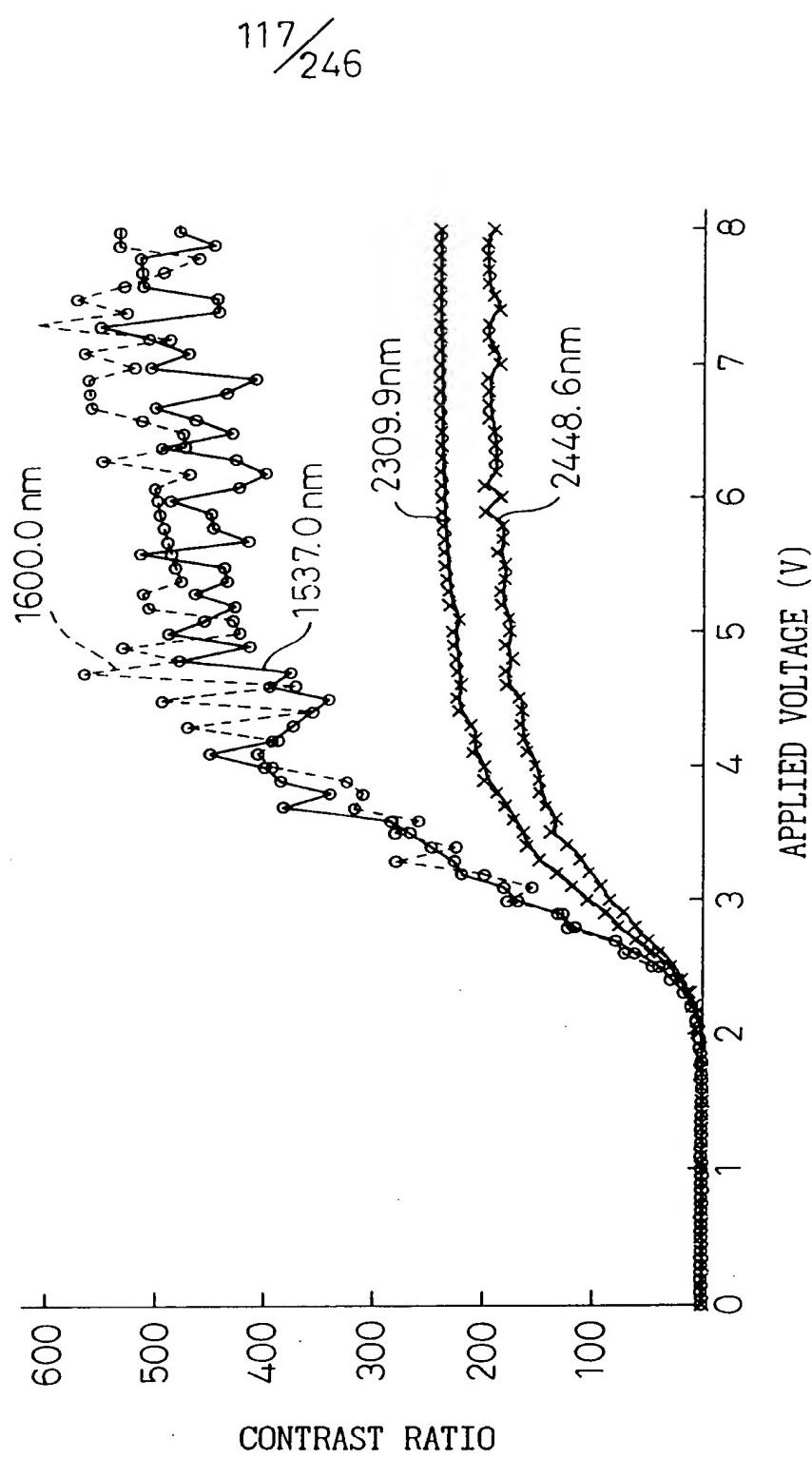
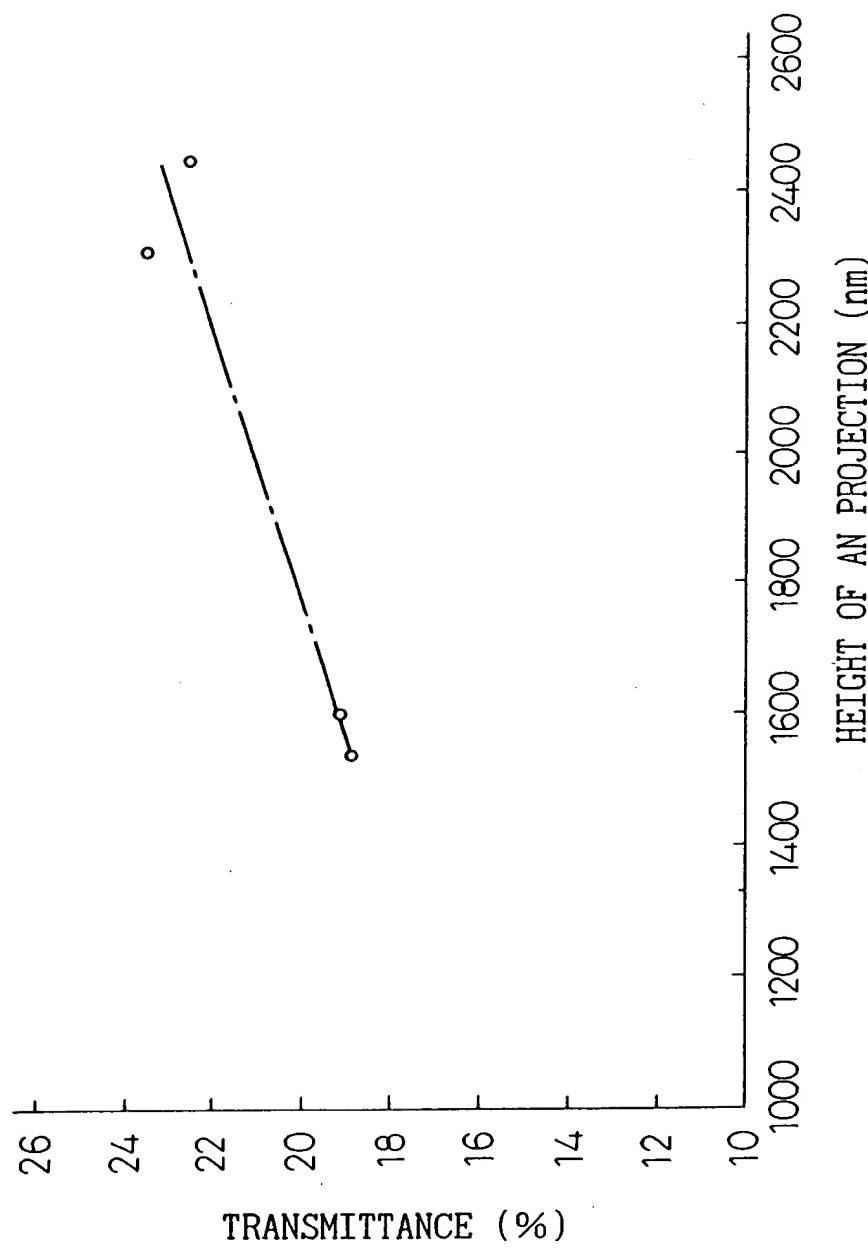


Fig. 121



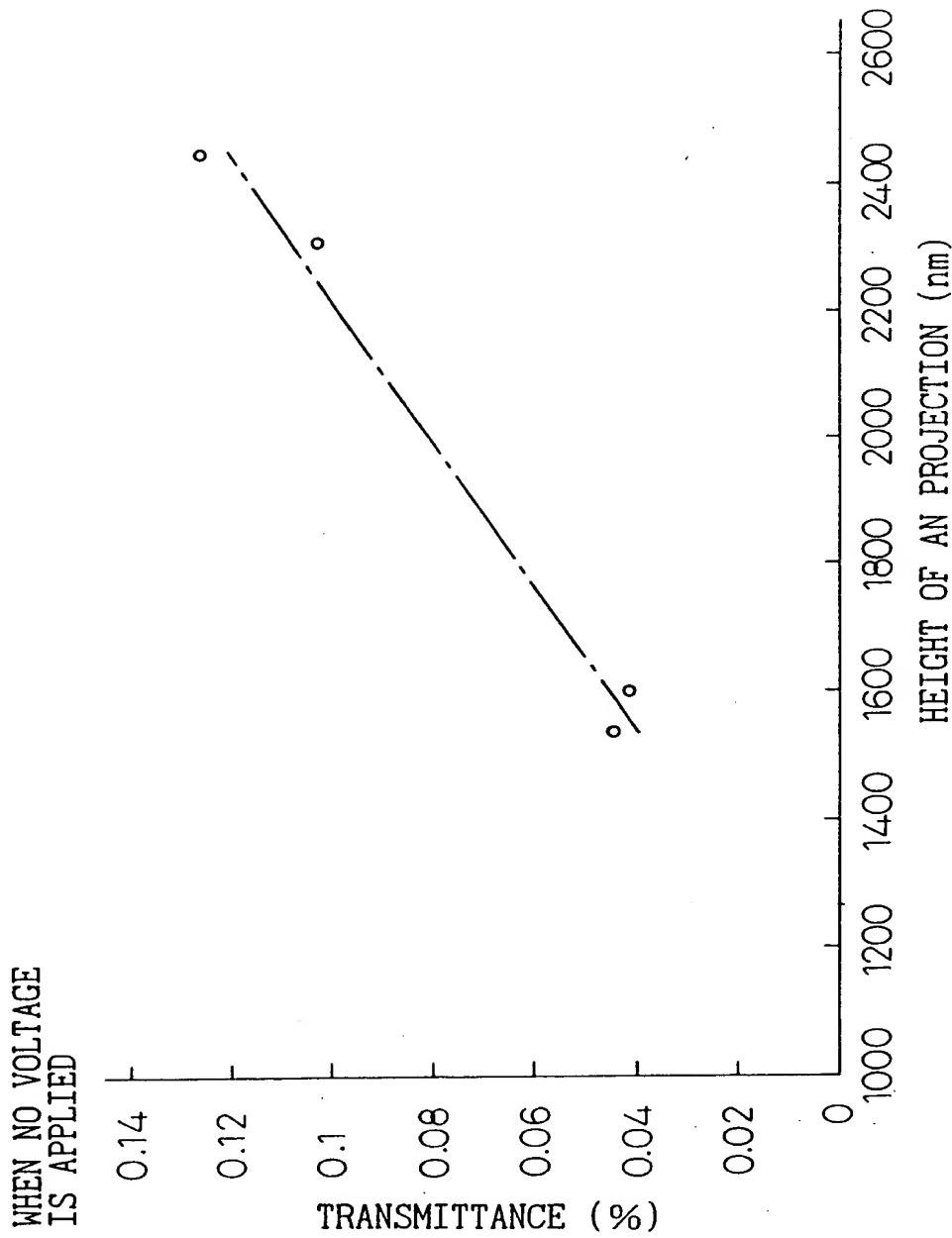
WHEN 5V IS APPLIED

Fig. 122



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Fig. 123



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Fig .124A

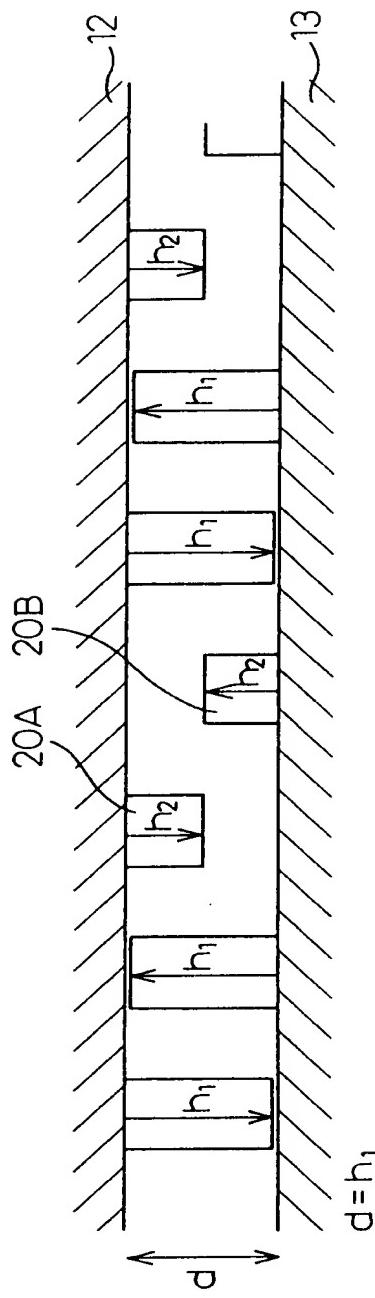
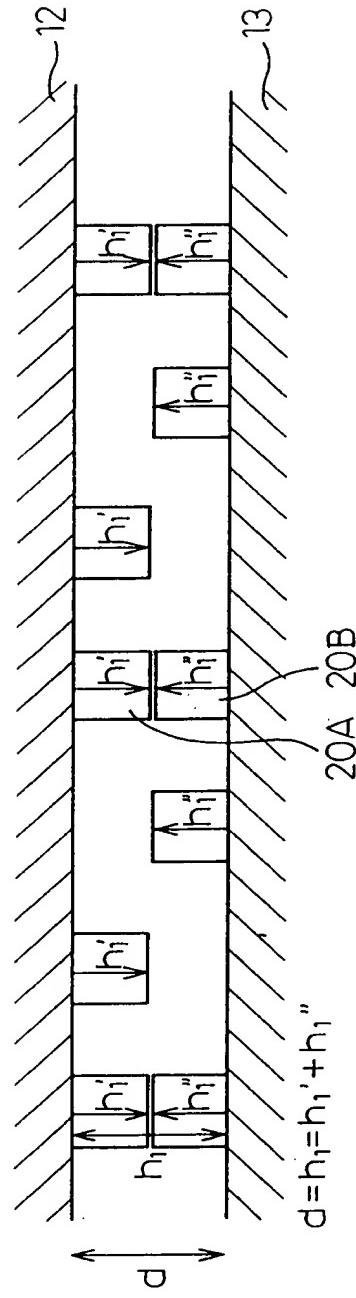


Fig .124B



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Fig .125A

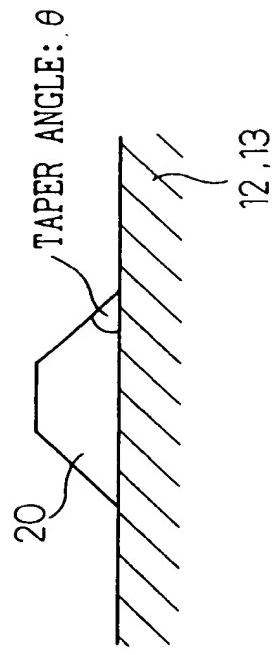
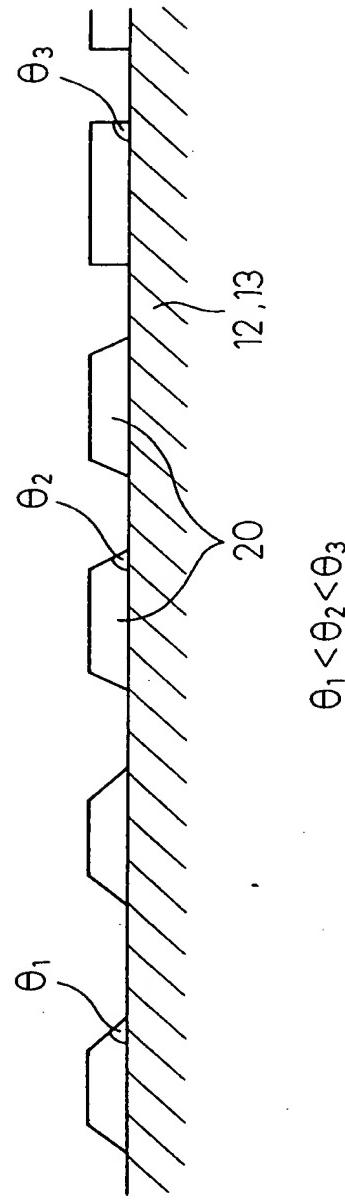
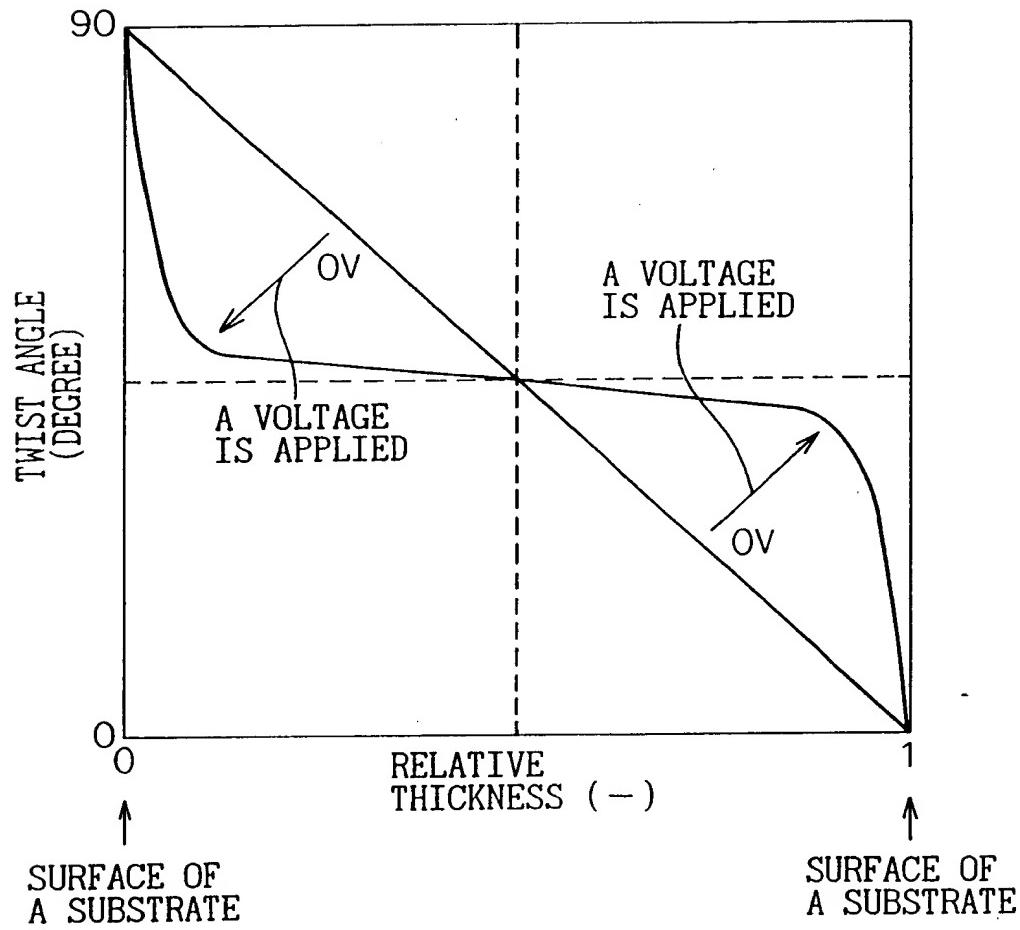


Fig .125B



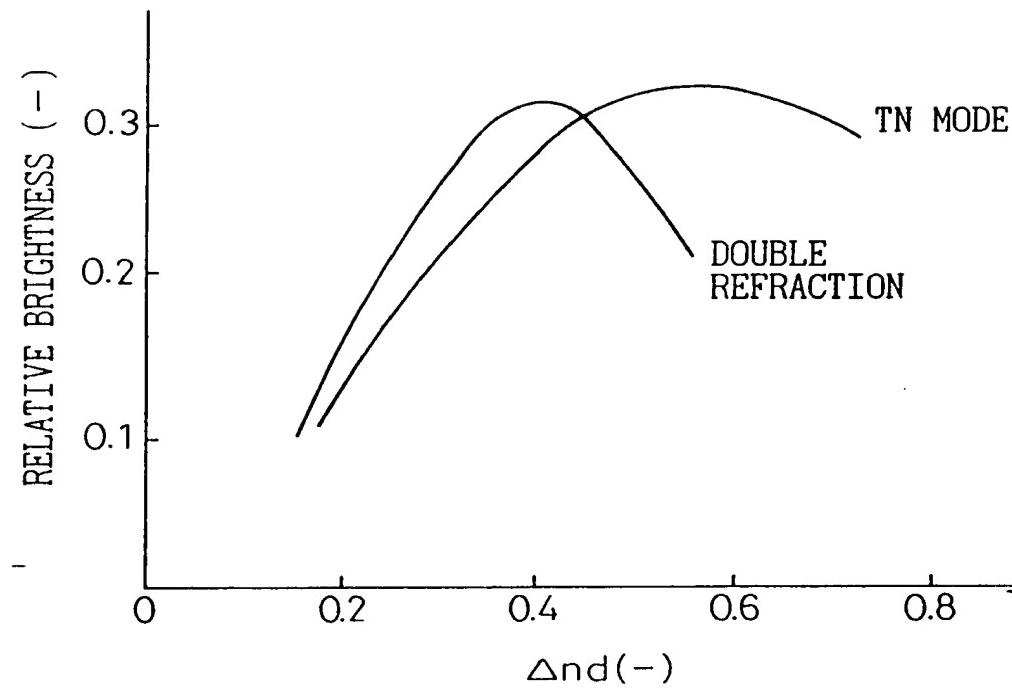
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Fig. 126



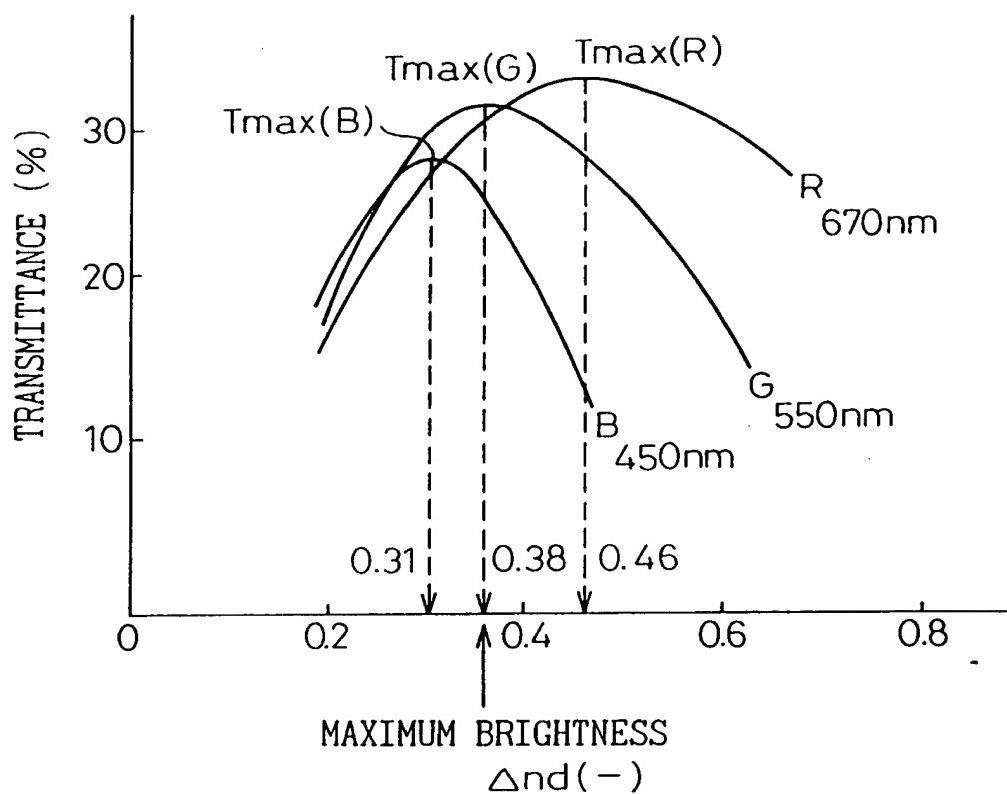
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Fig. 127



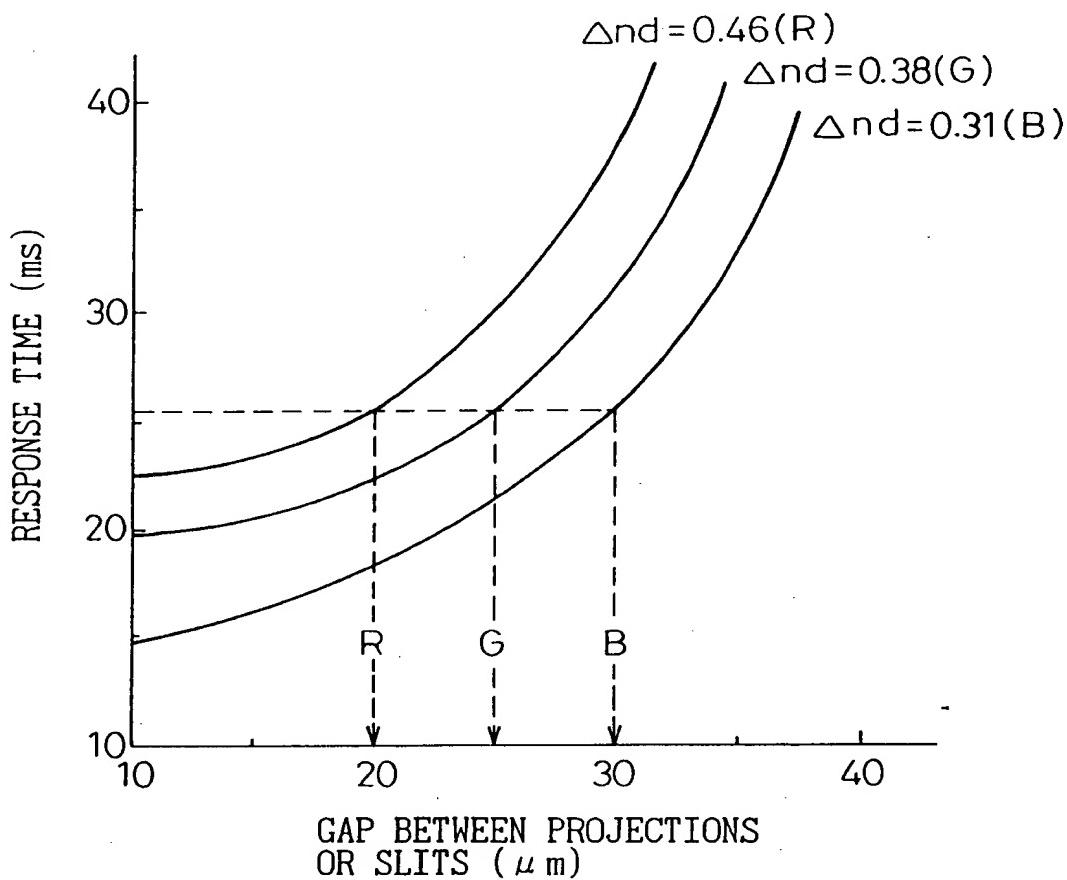
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Fig. 128



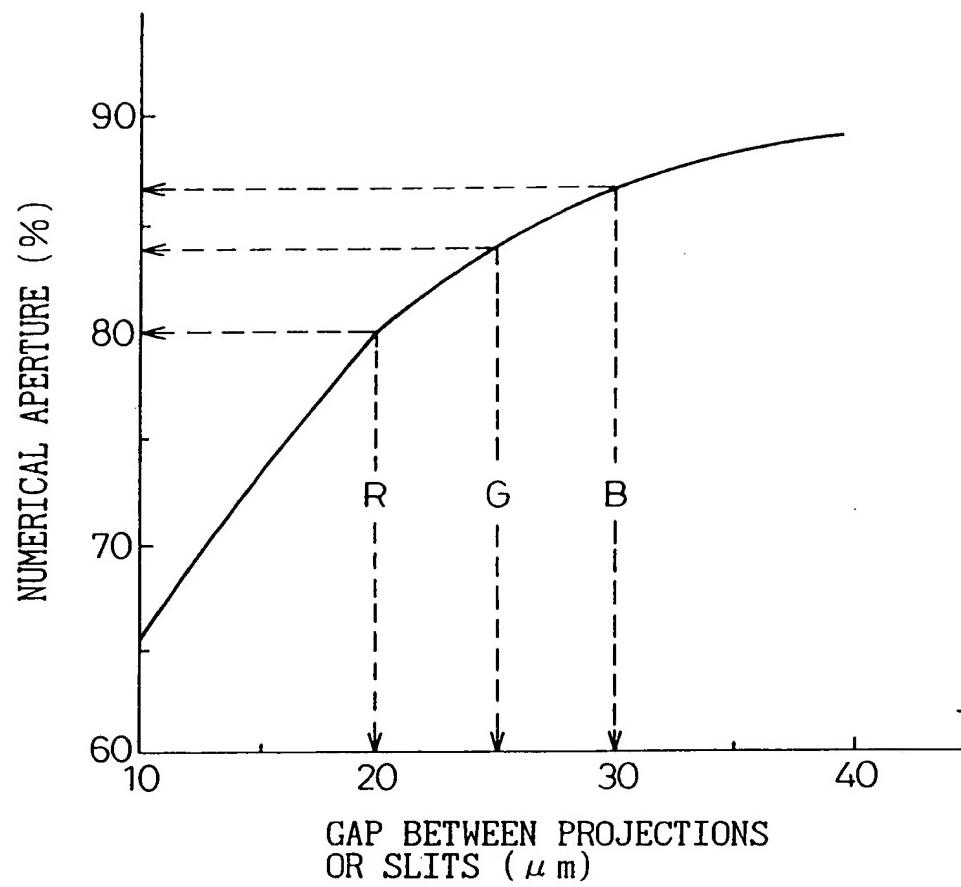
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Fig. 129



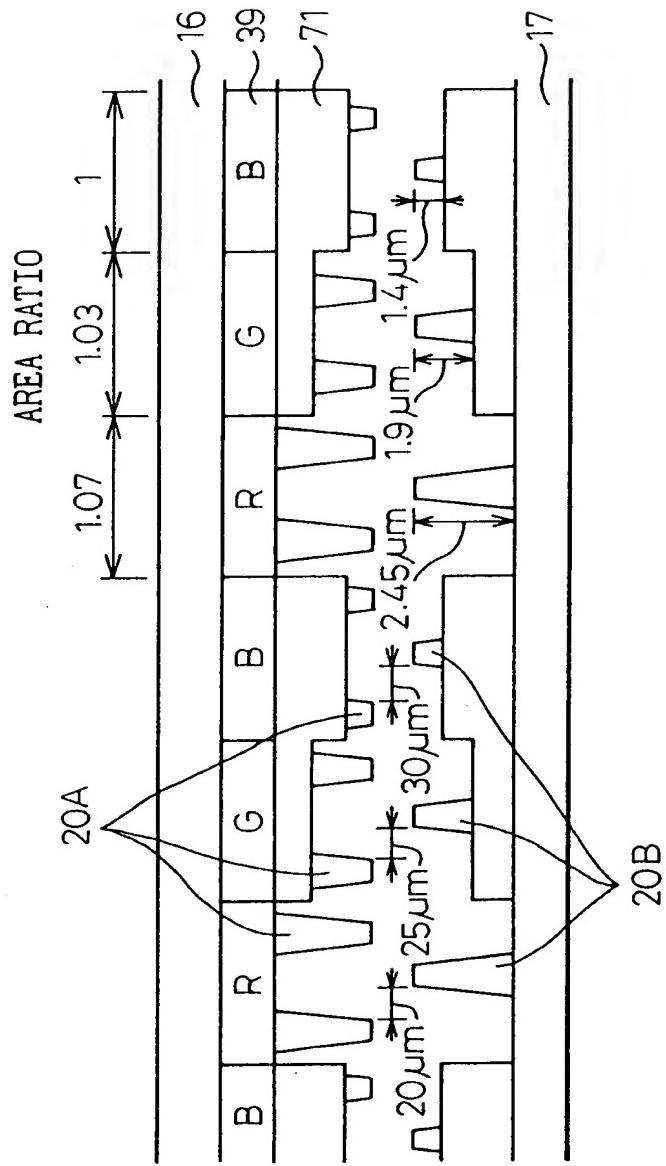
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Fig. 130



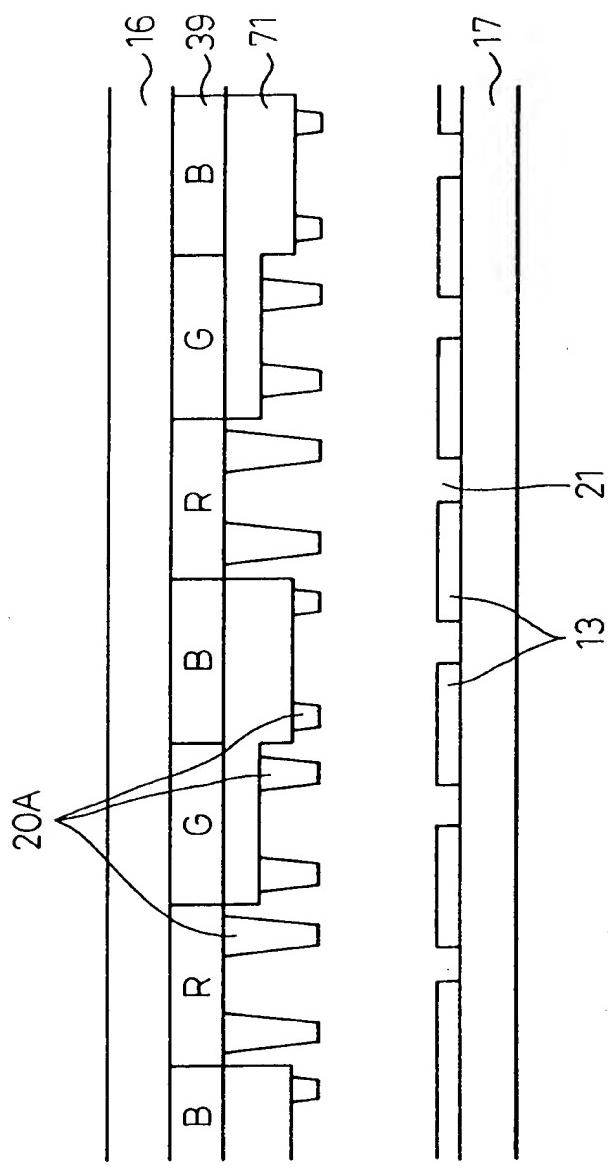
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Fig. 131



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Fig. 132



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Fig. 133

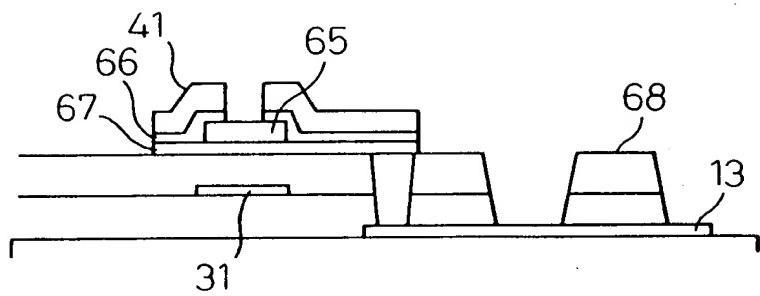


Fig. 134 A

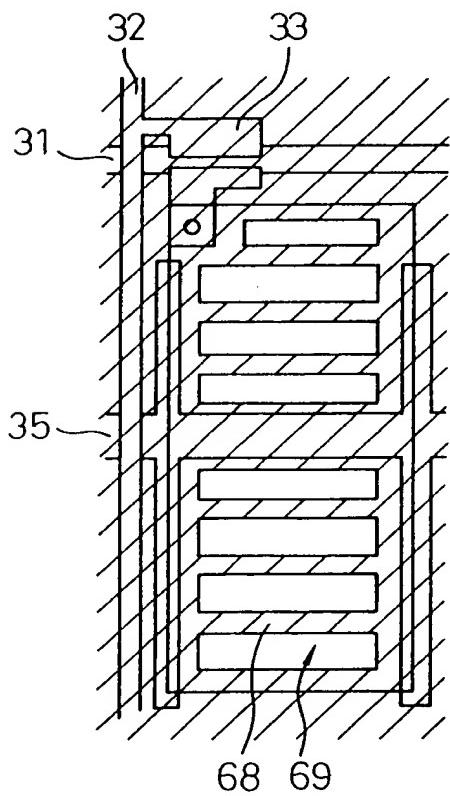


Fig. 134 B

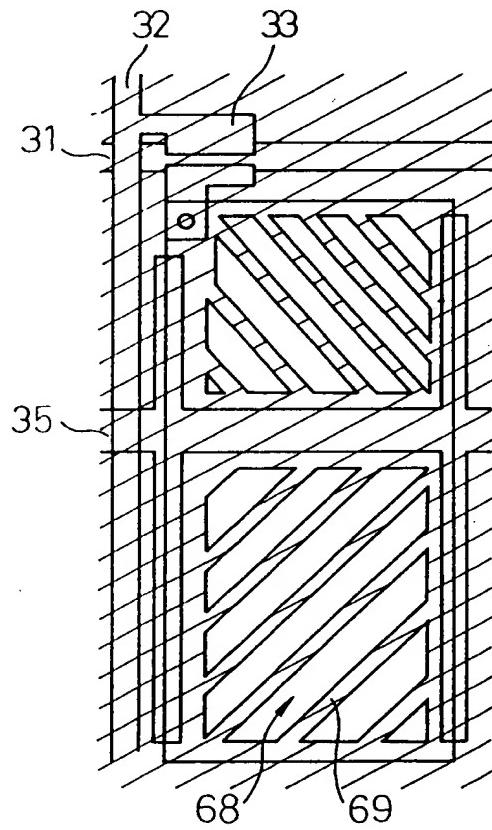
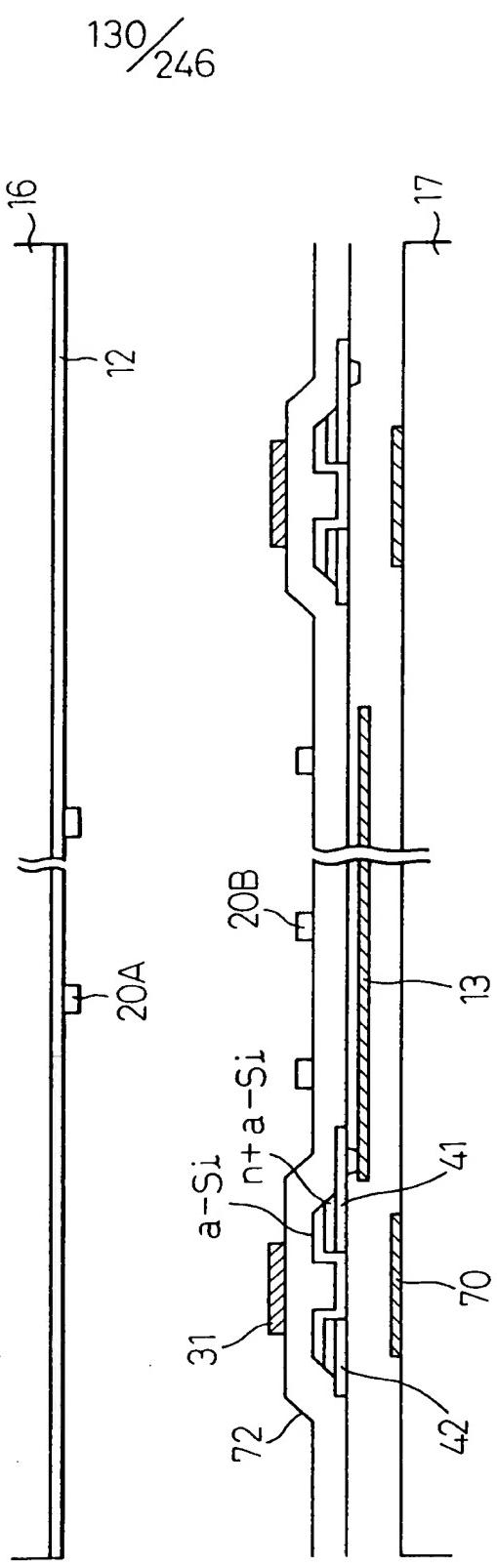


Fig. 135



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Fig.136A

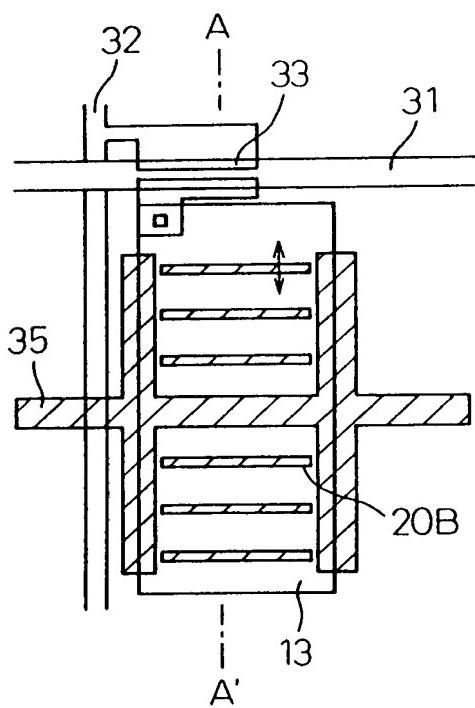
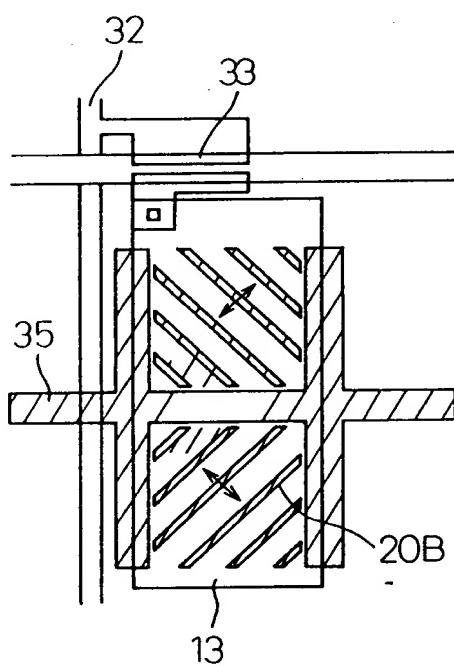


Fig.136B



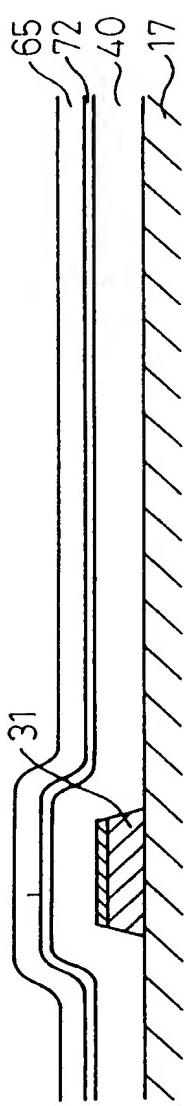


Fig. 137A

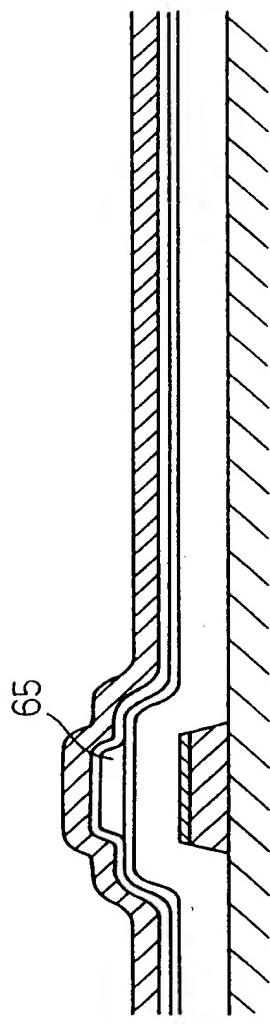


Fig. 137B

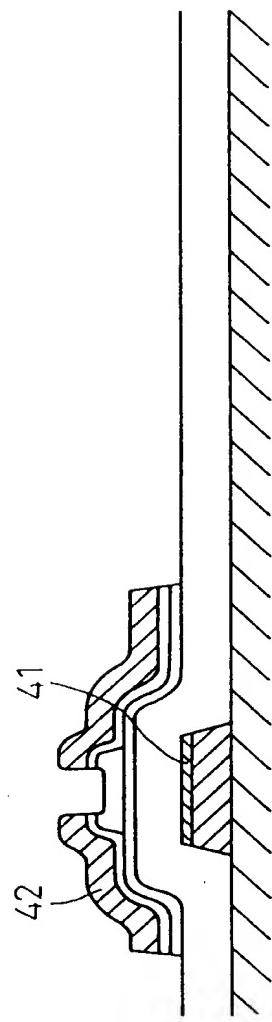


Fig. 137C

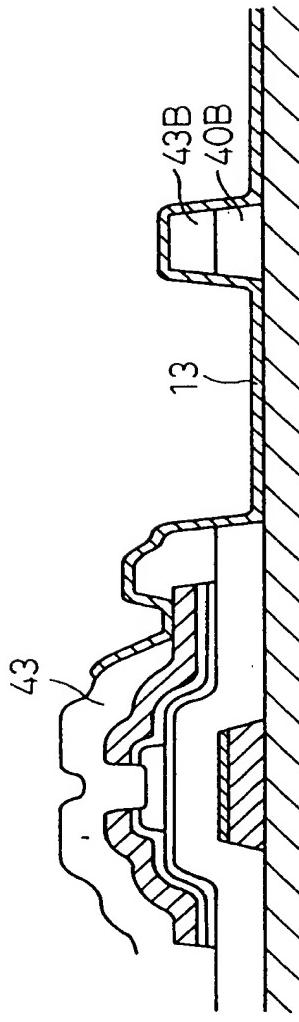
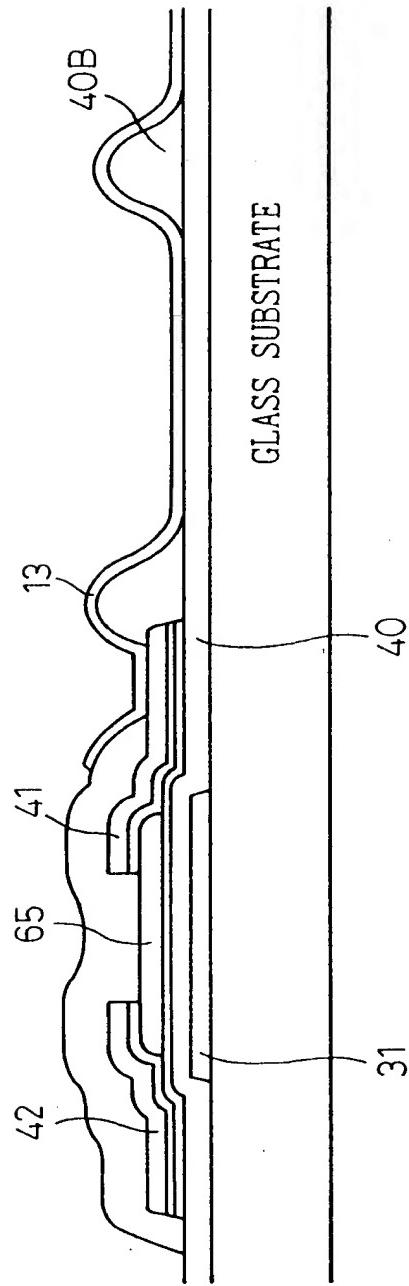


Fig. 137D

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Fig. 138



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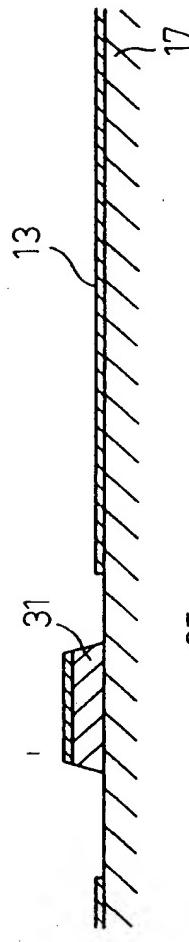


Fig. 139A

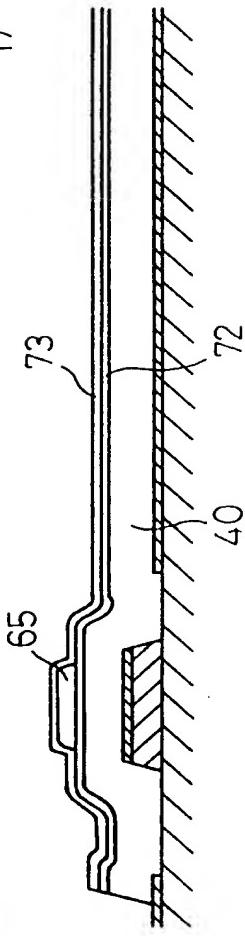


Fig. 139B

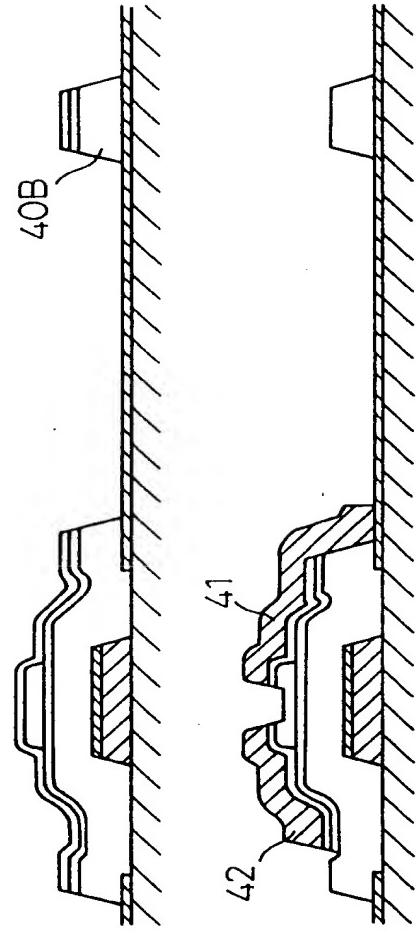


Fig. 139C

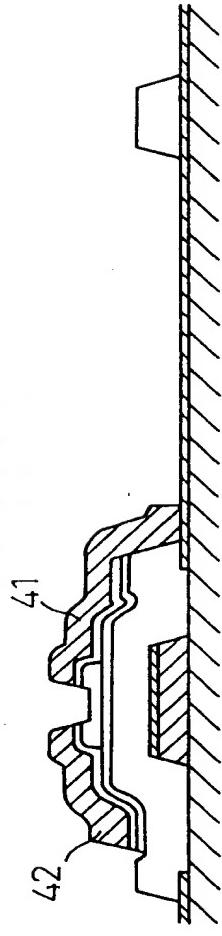


Fig. 139D

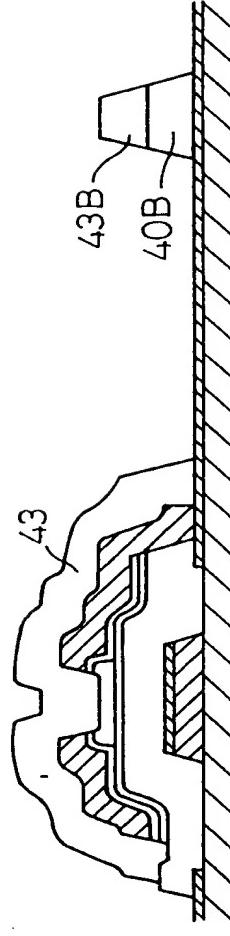


Fig. 139E

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Fig. 140 A

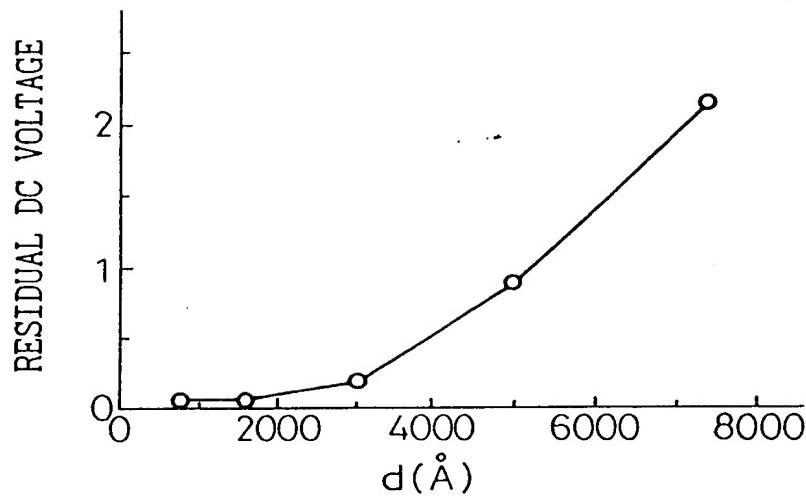
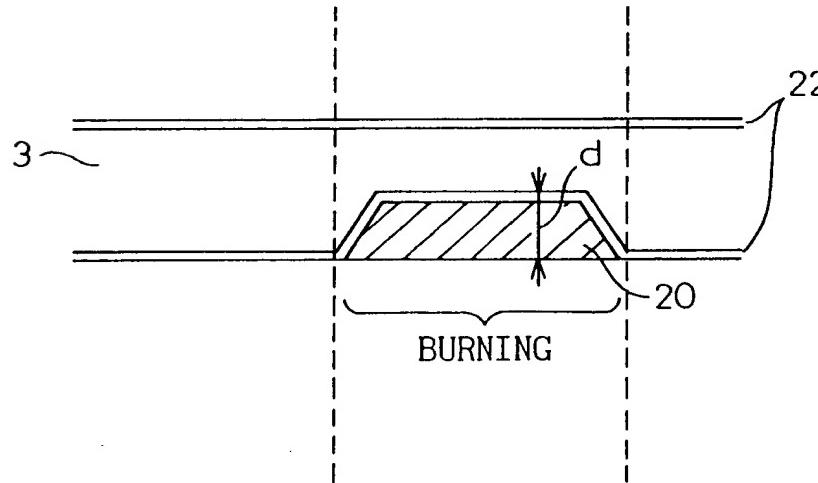


Fig. 140 B



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Fig.141A

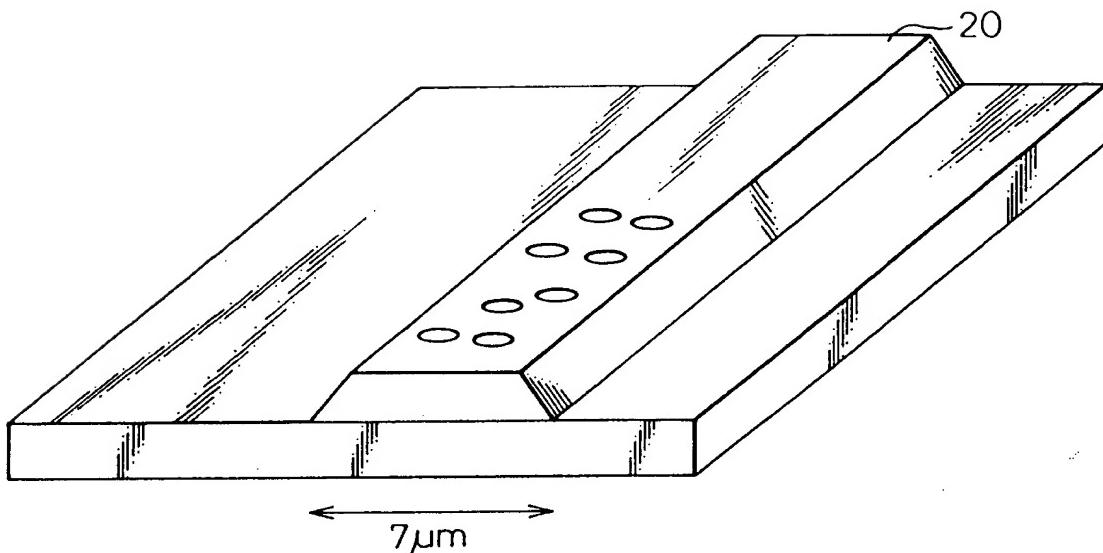
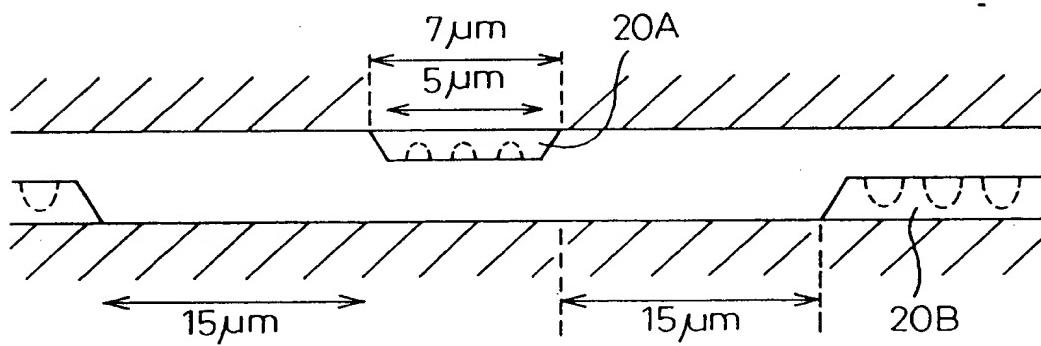


Fig.141B



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Fig.142A

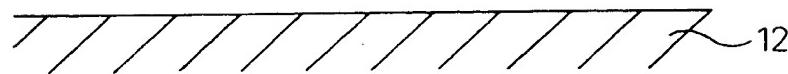


Fig.142B



Fig.142C

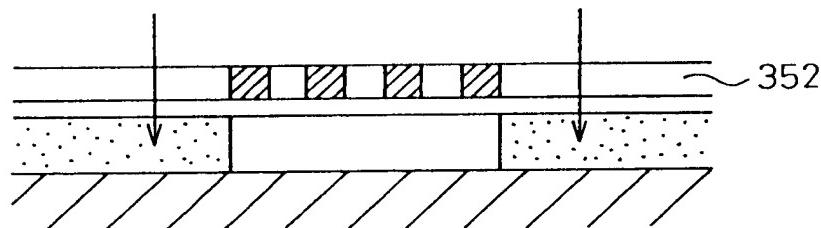


Fig.142D

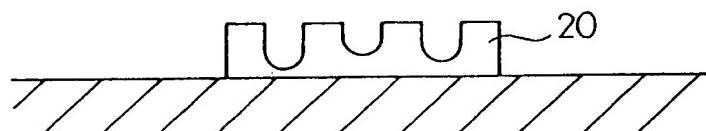
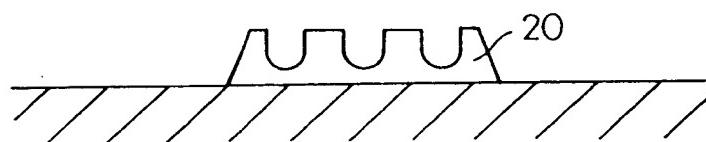
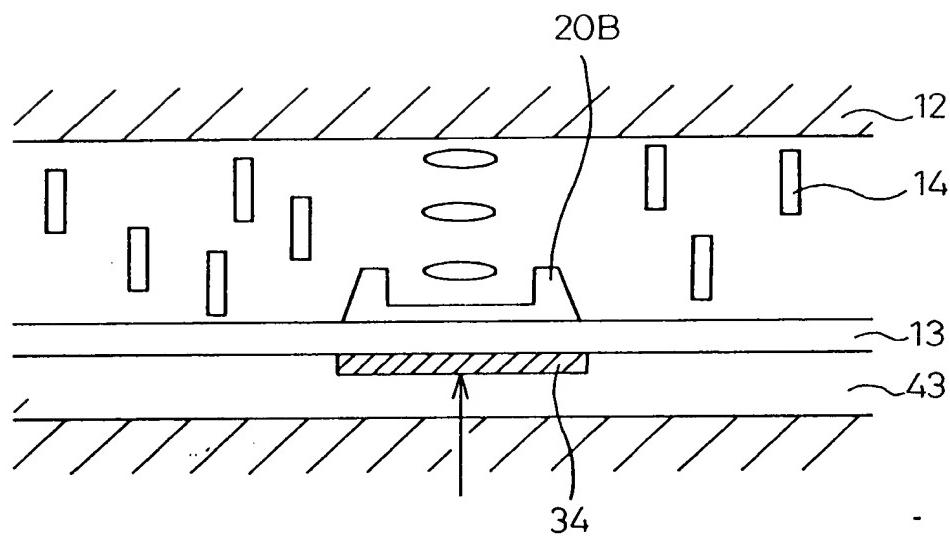


Fig.142E



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Fig.143



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Fig. 144A

BEFORE BAKING

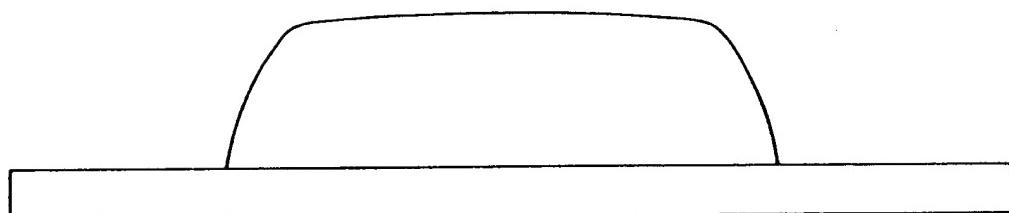
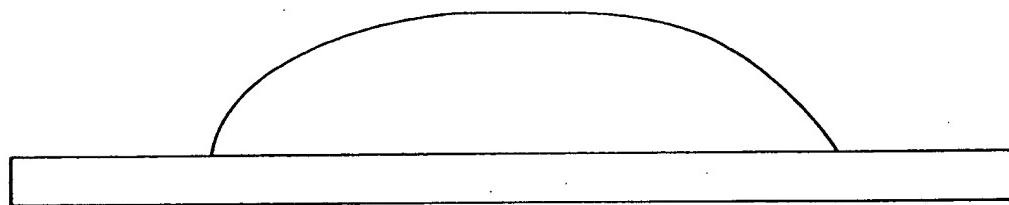


Fig. 144B

AFTER BAKING



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Fig.145A NO BAKING

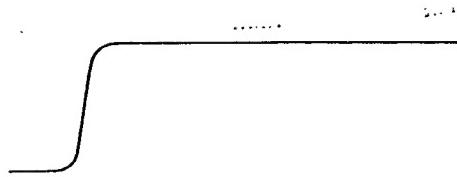


Fig.145B 120°C



Fig.145C 130°C

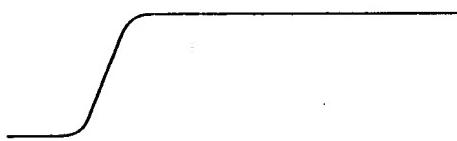


Fig.145D 140°C

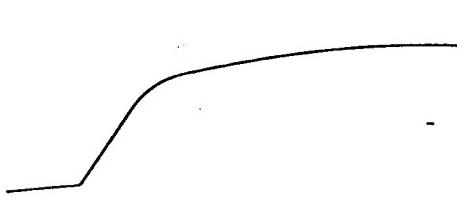
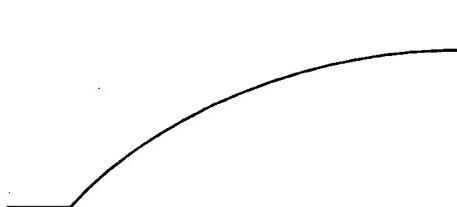


Fig.145E 150°C



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Fig. 146A

$2\mu m$ WIDTH

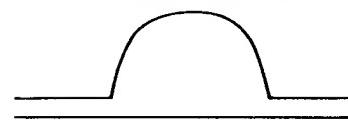


Fig. 146B

$5\mu m$ WIDTH

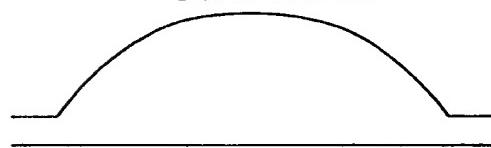
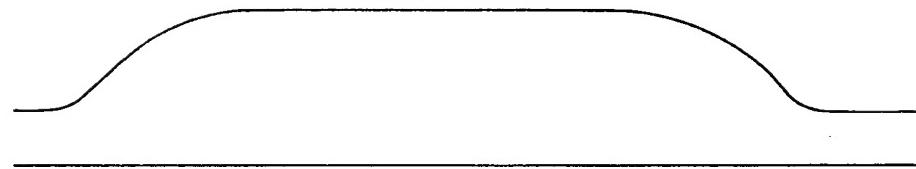


Fig. 146C

$10\mu m$ WIDTH



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Fig. 147A

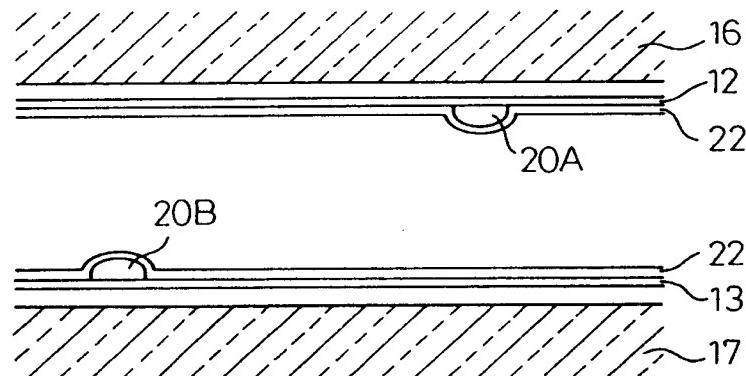
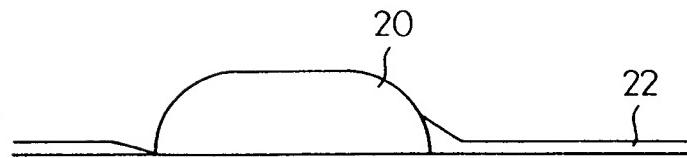


Fig. 147B



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Fig. 148A

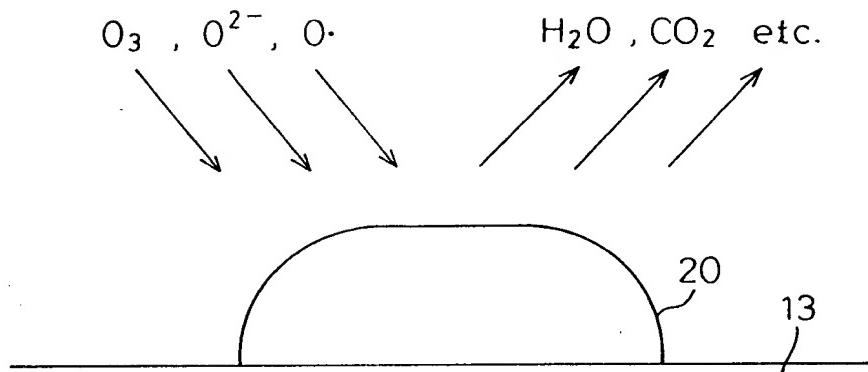


Fig. 148B

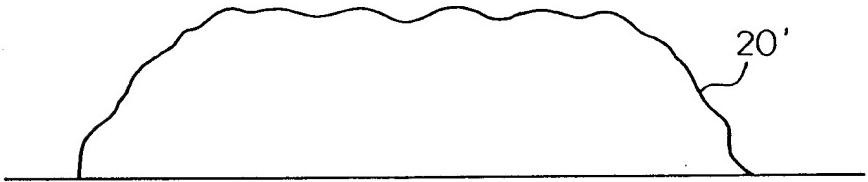
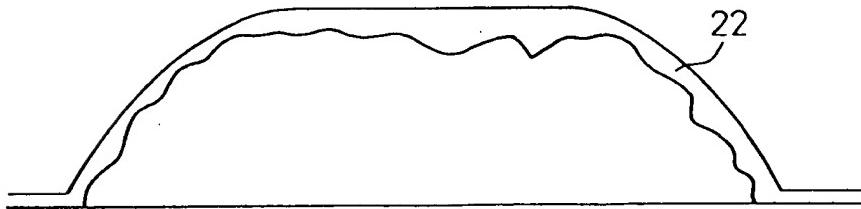


Fig. 148C



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Fig.149A

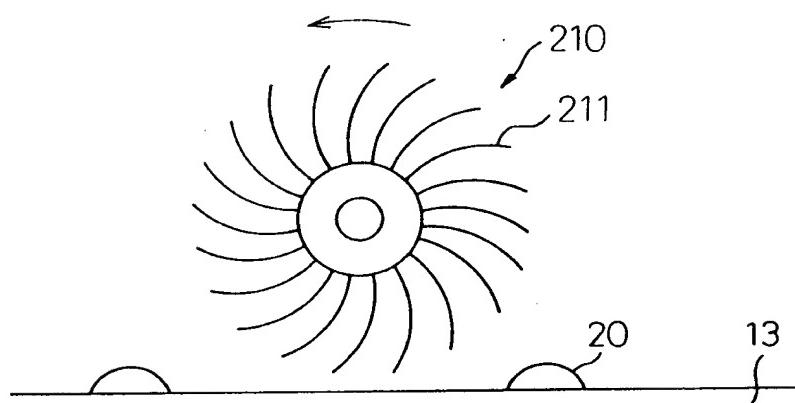
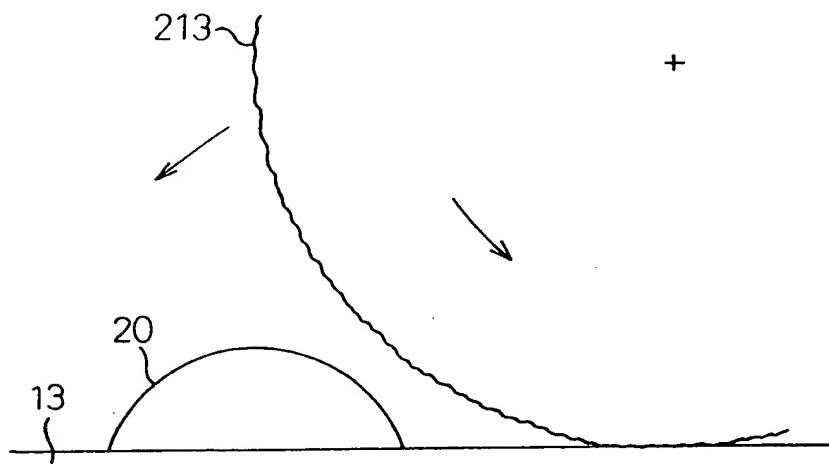
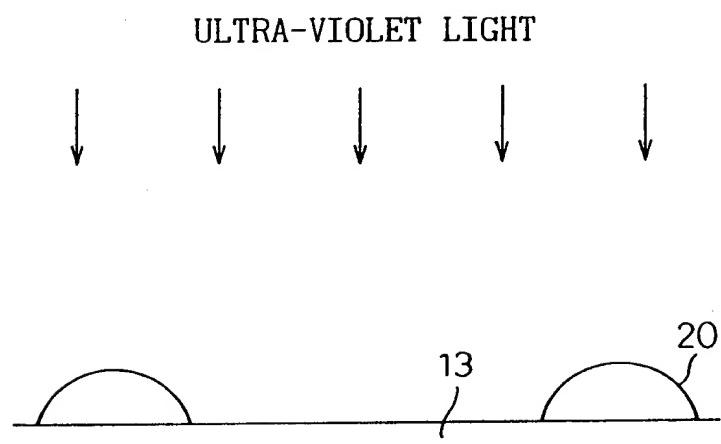


Fig.149B



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Fig. 150



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Fig.151A

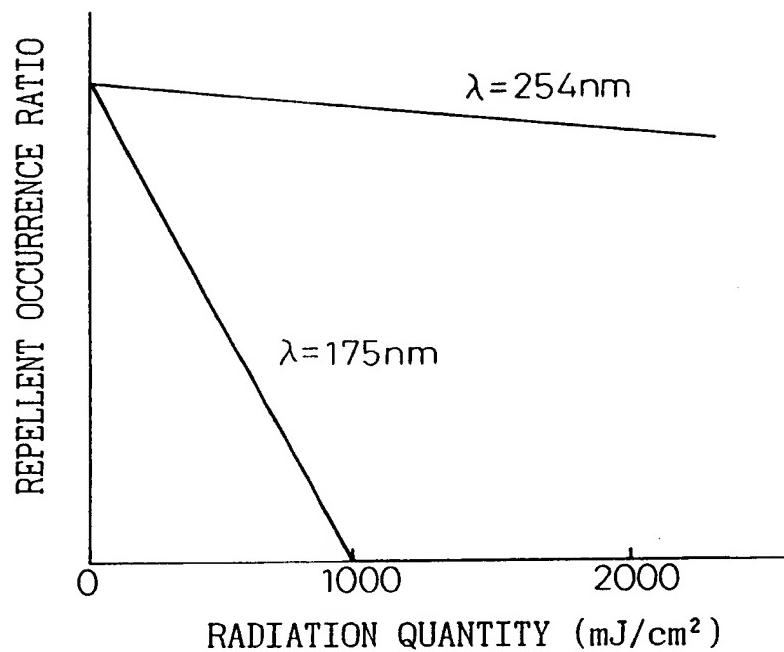
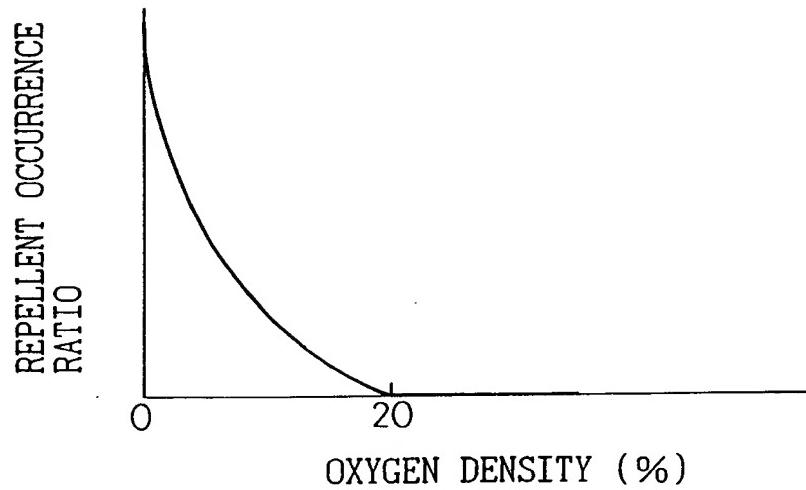


Fig.151B



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Fig. 152A

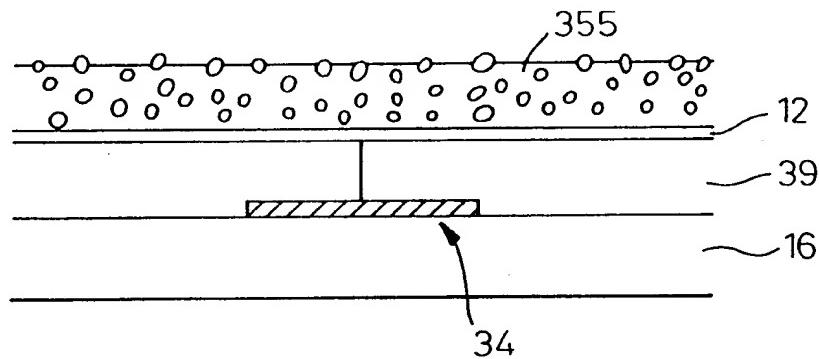


Fig. 152B

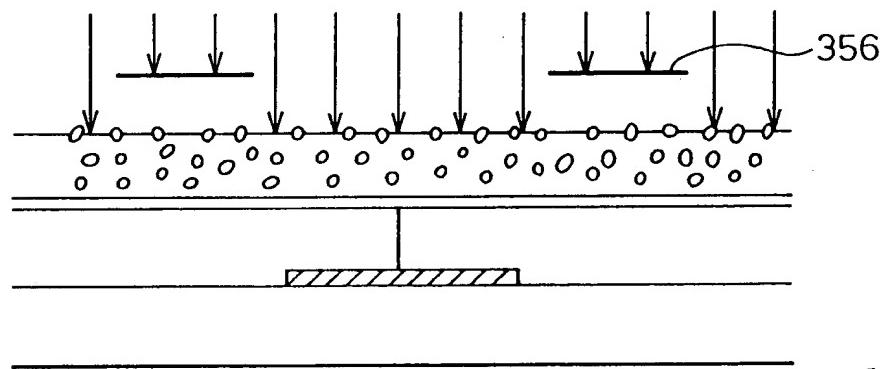
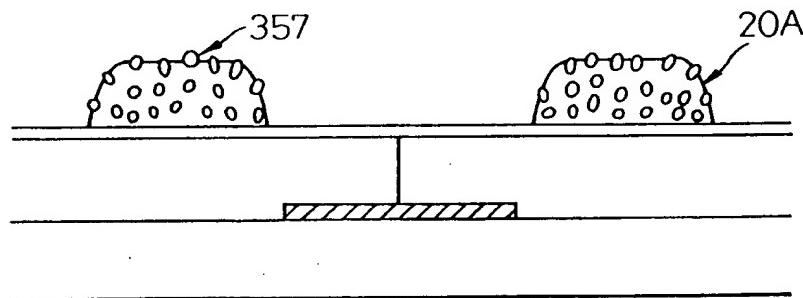


Fig. 152C



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Fig.153A

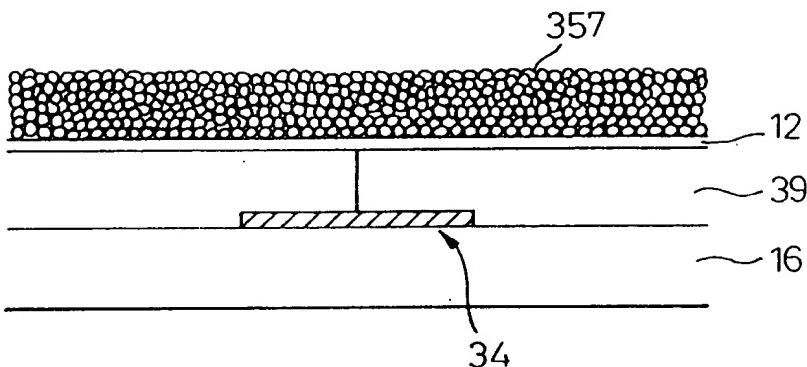


Fig.153B

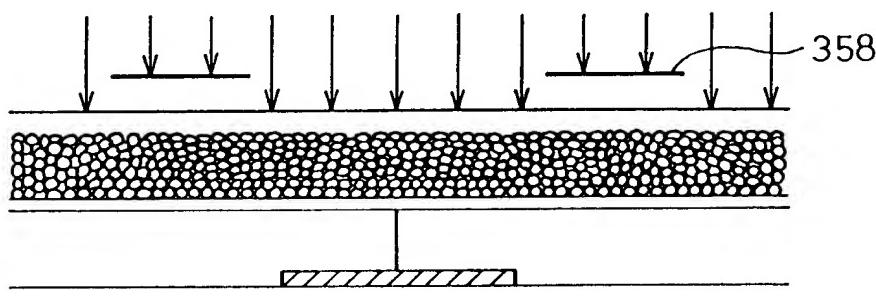
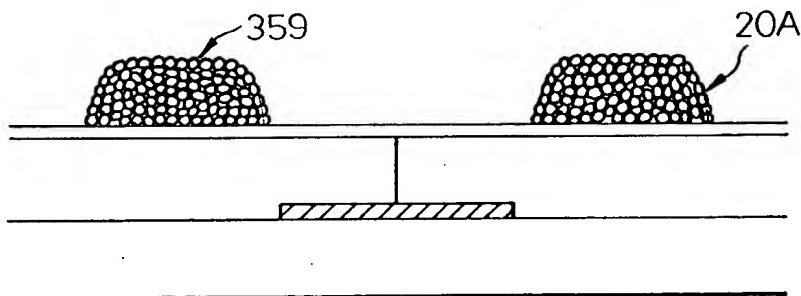


Fig.153C



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Fig. 154 A

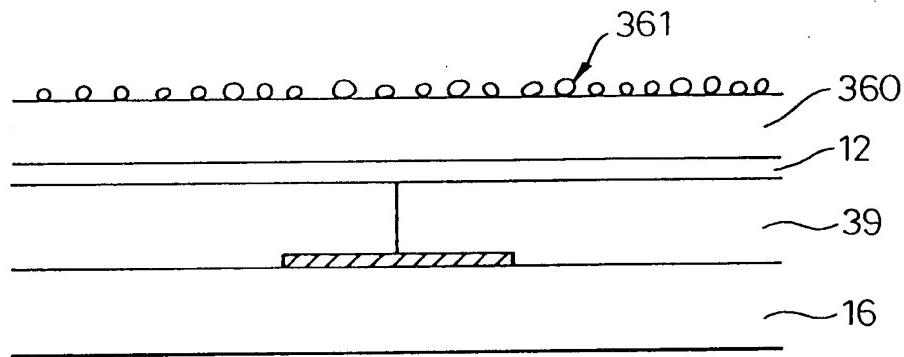
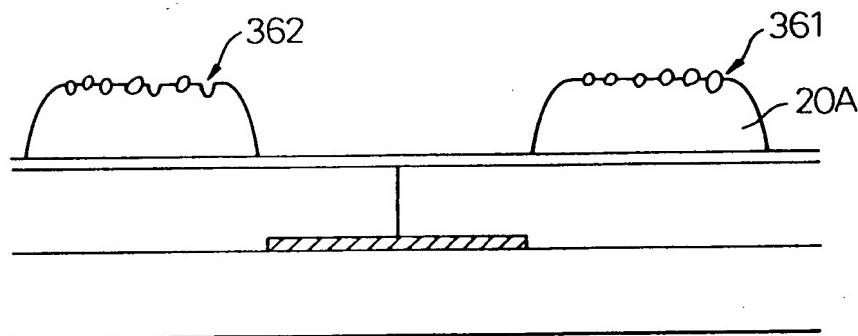


Fig. 154 B



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246

Fig.155A

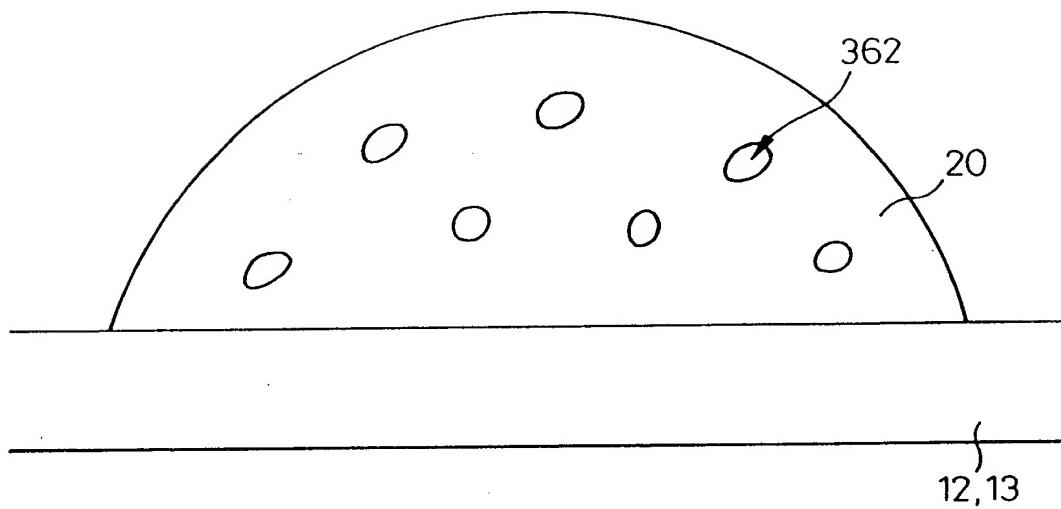
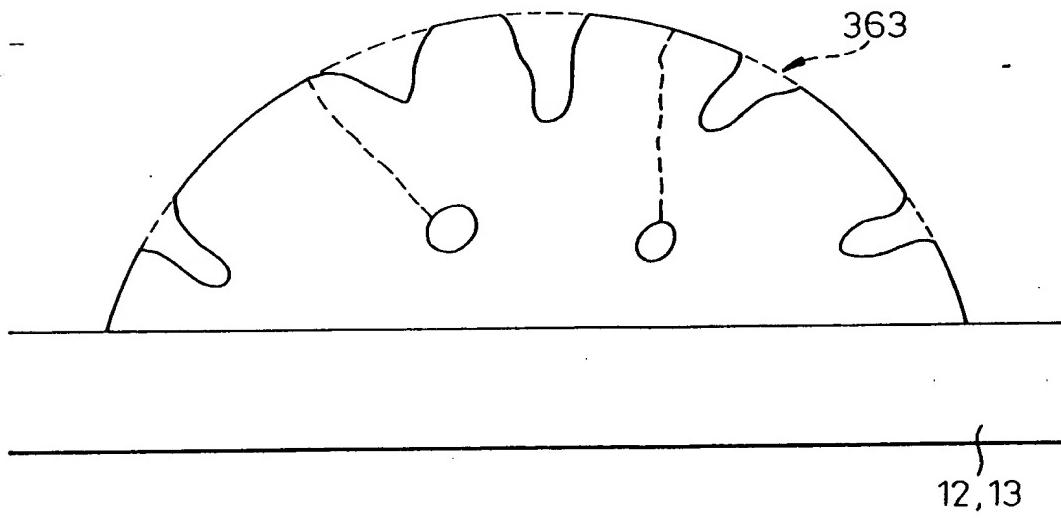
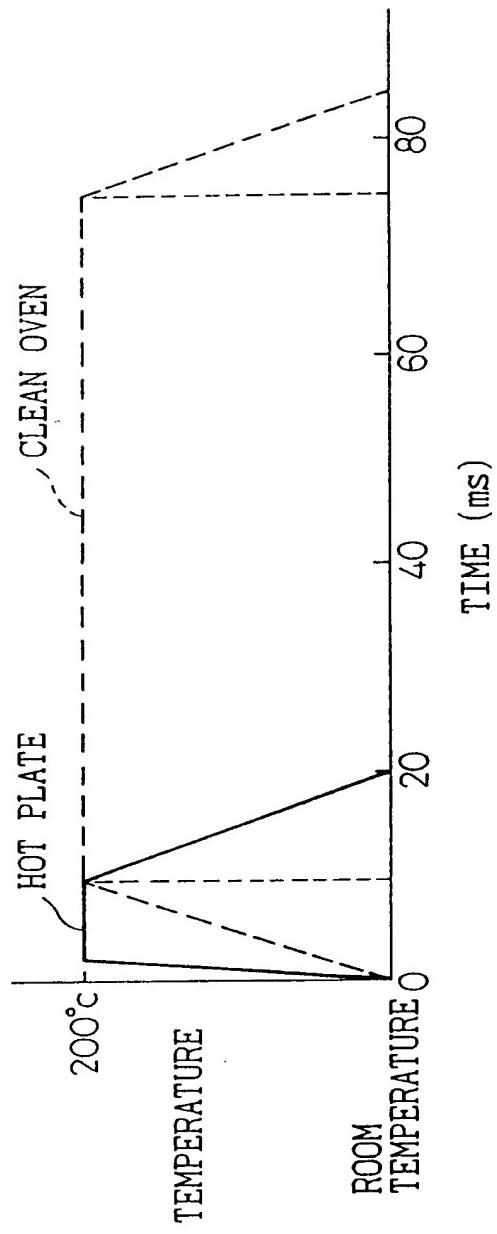


Fig.155B



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Fig. 156



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Fig. 157A

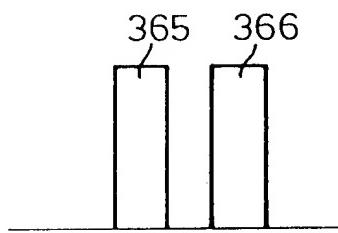


Fig. 157B

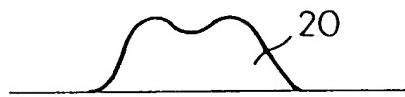
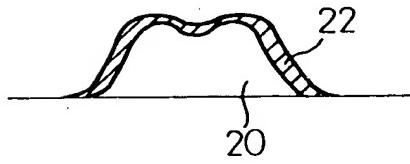


Fig. 157C



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Fig. 158

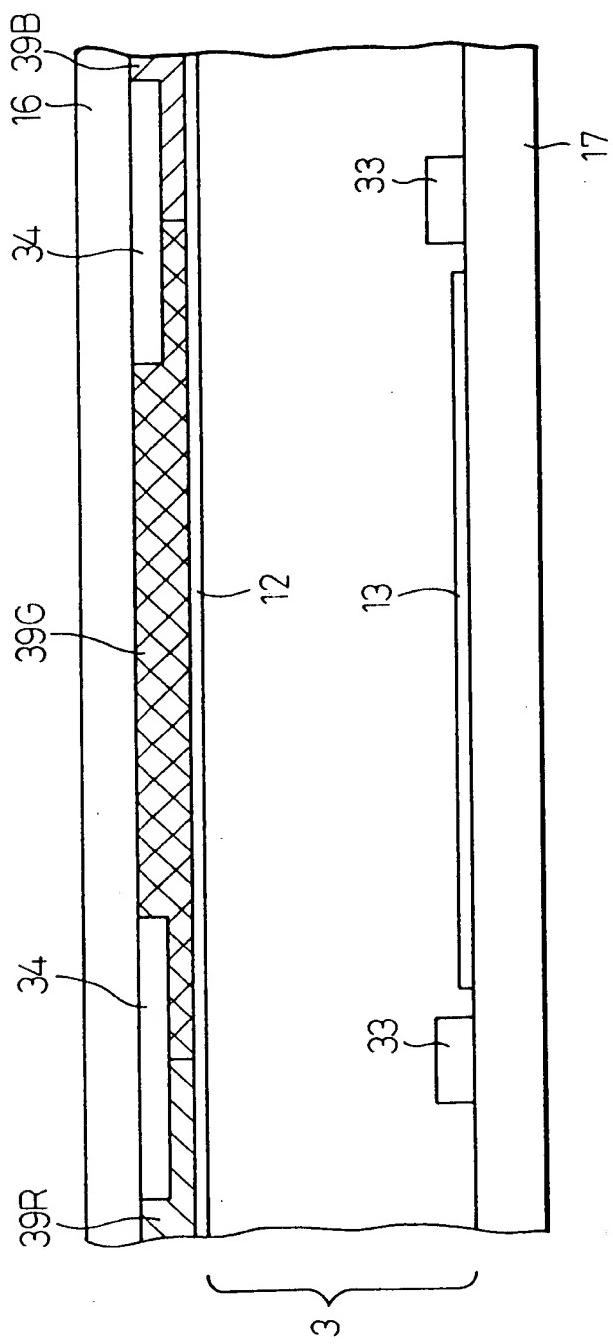
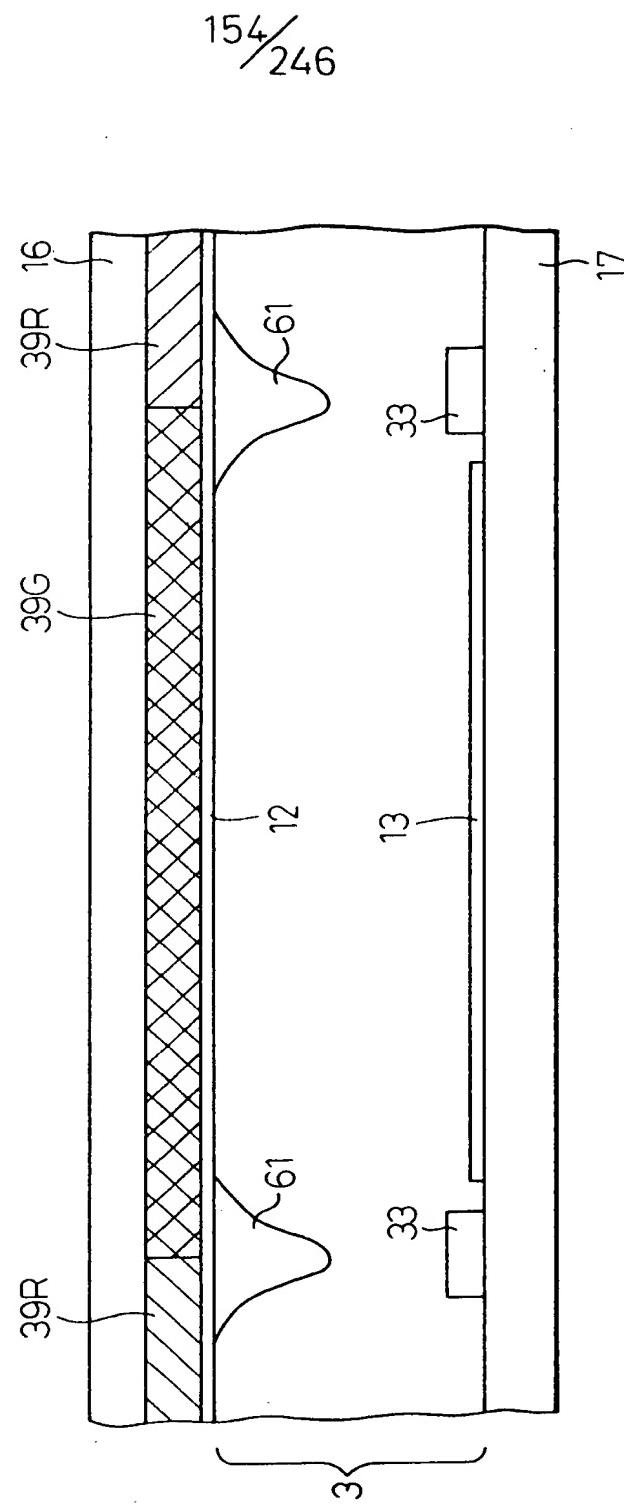
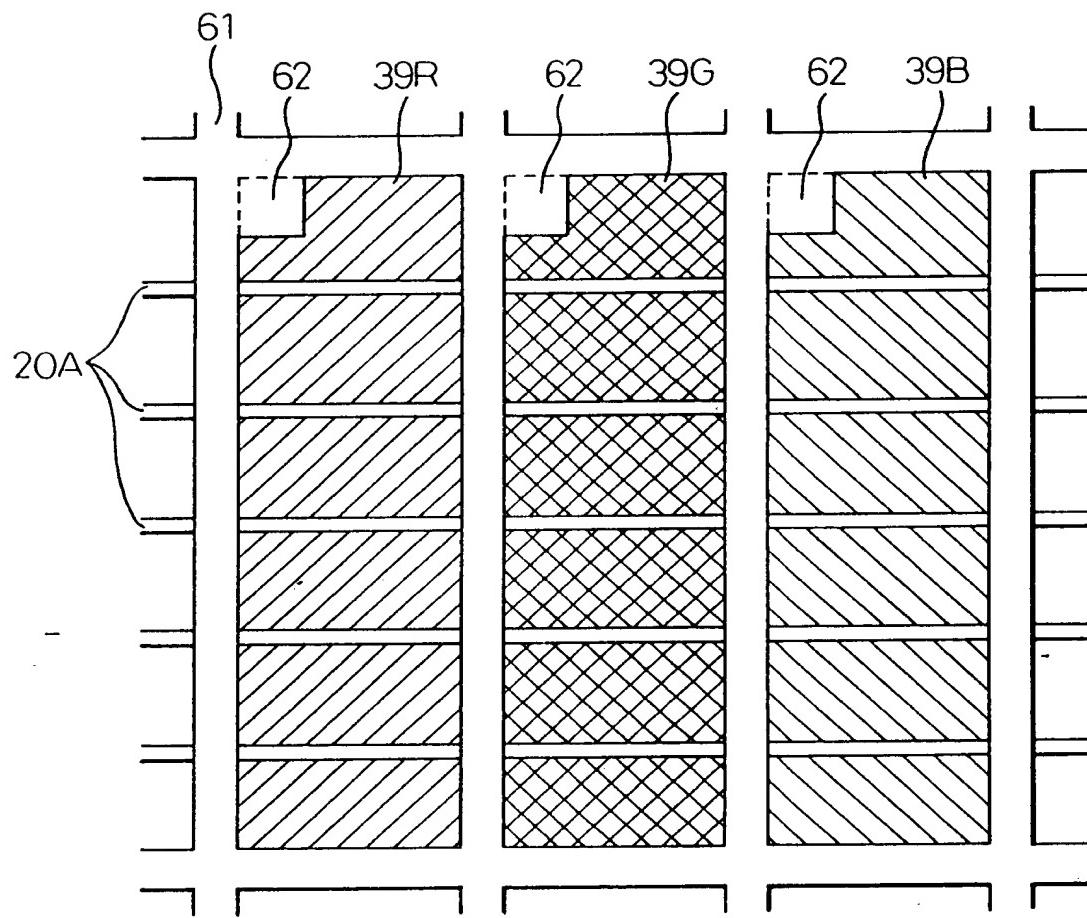


Fig. 159



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Fig. 160



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Fig. 161

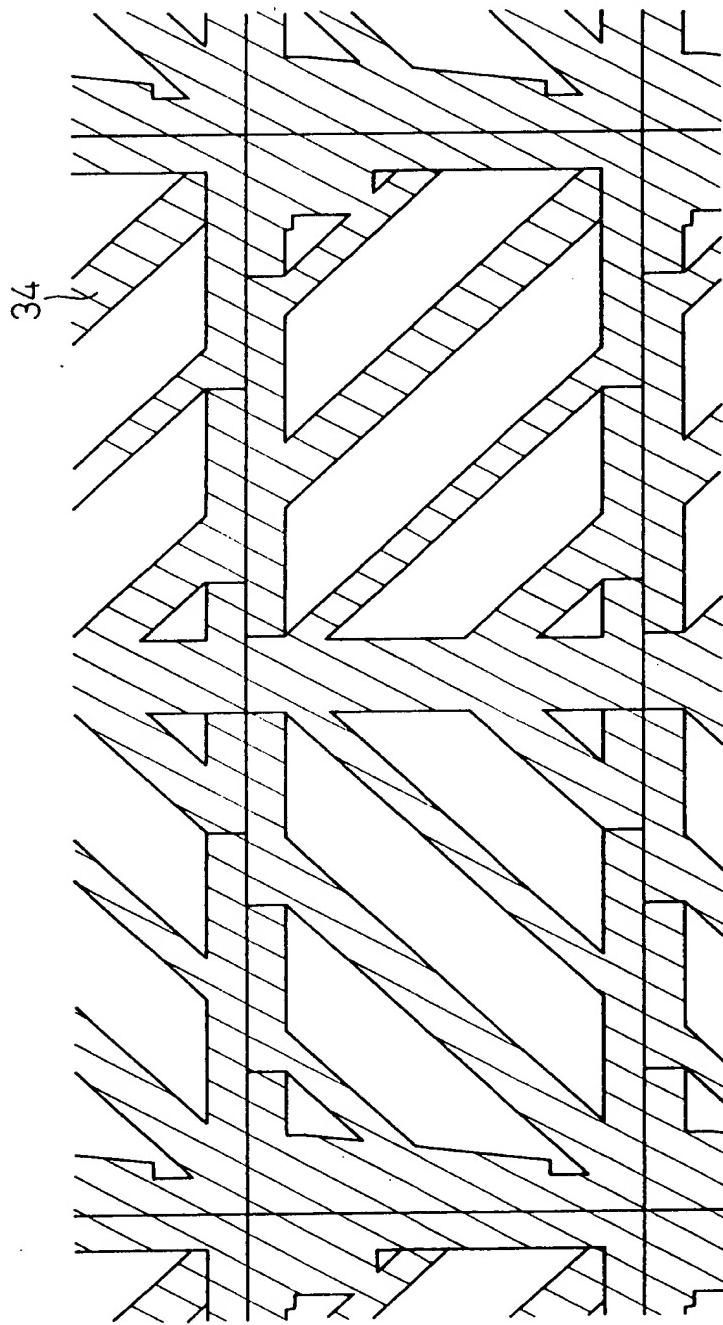
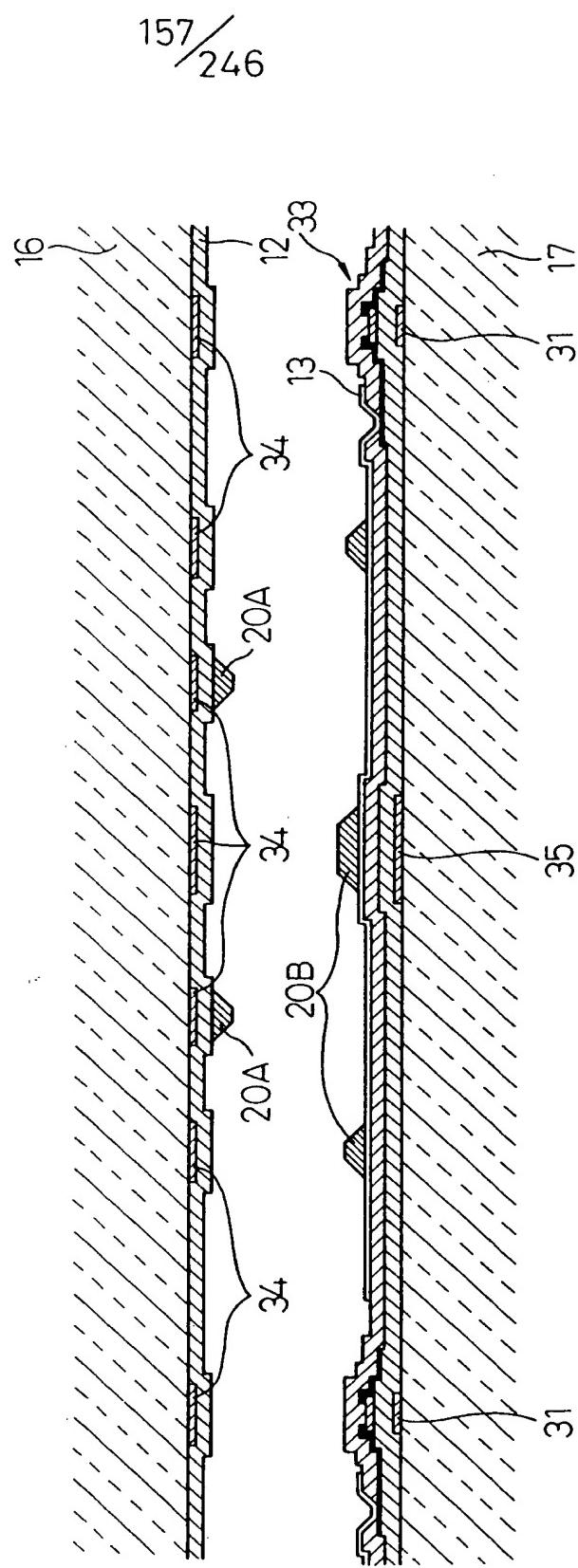


Fig. 162



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Fig. 163

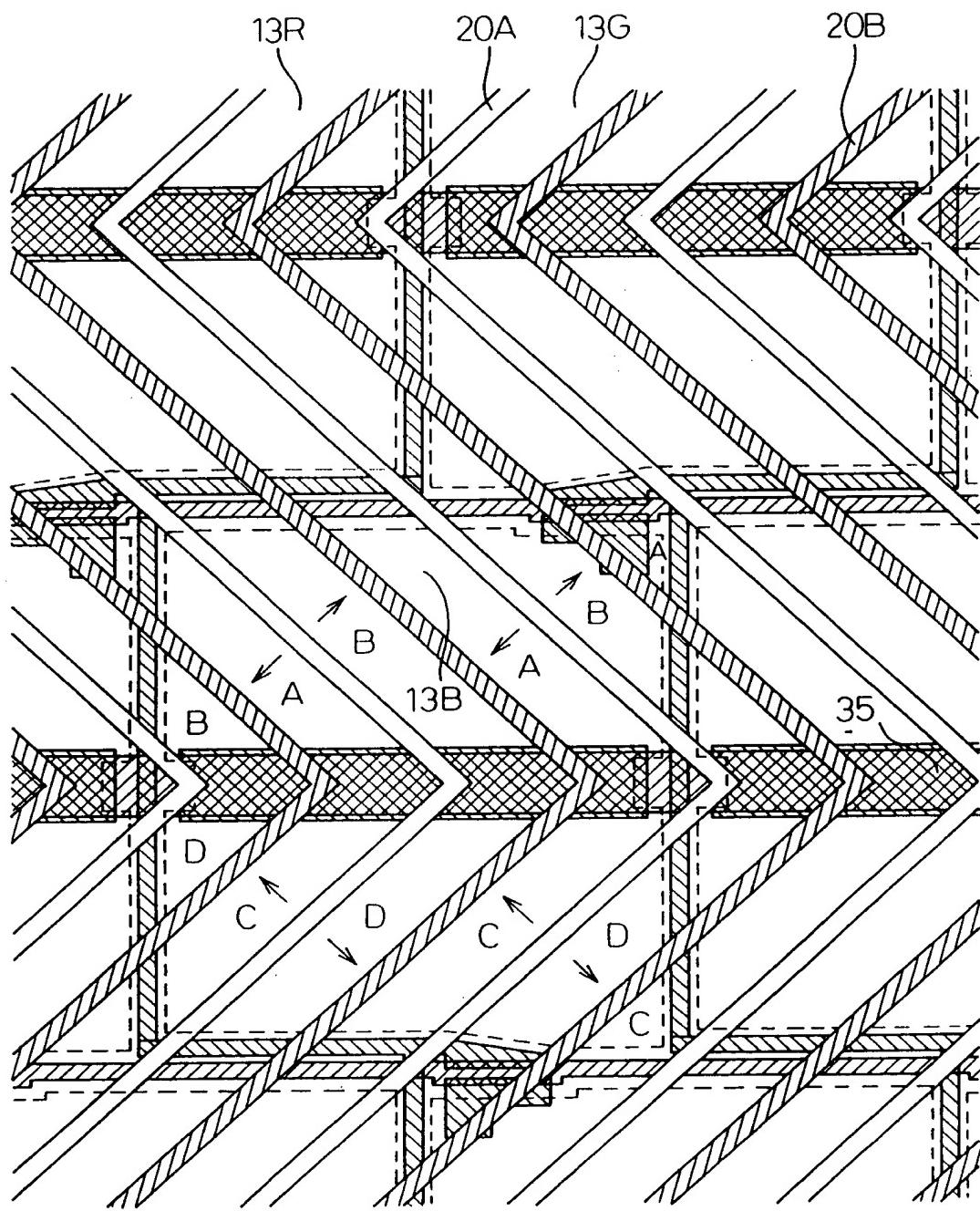


Fig. 164

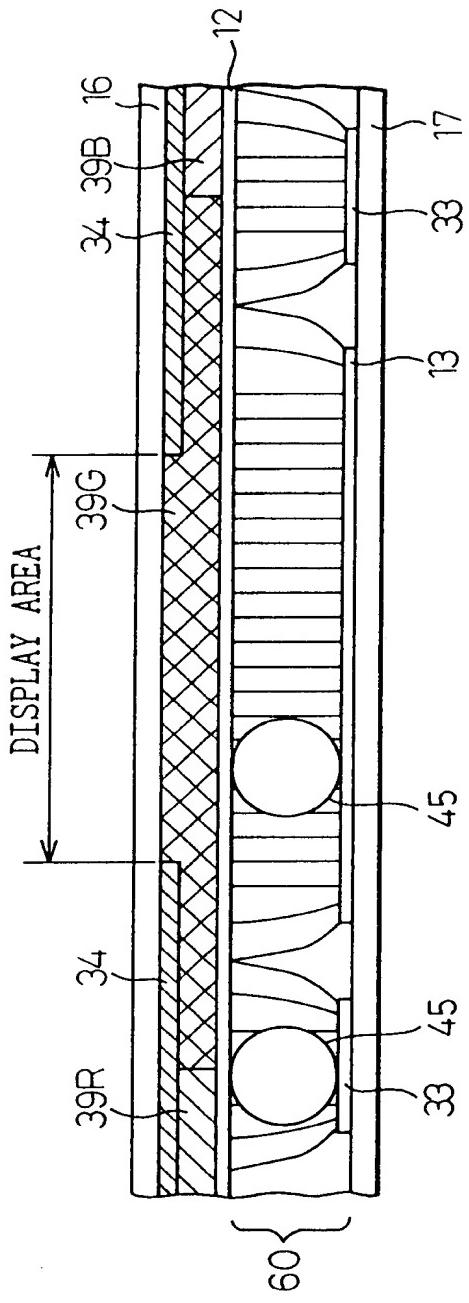


Fig. 165A

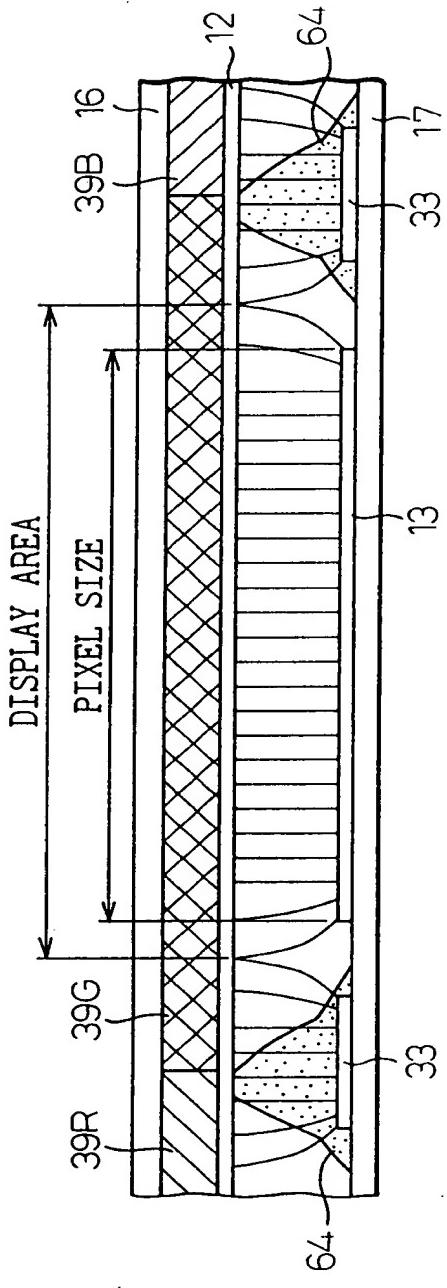
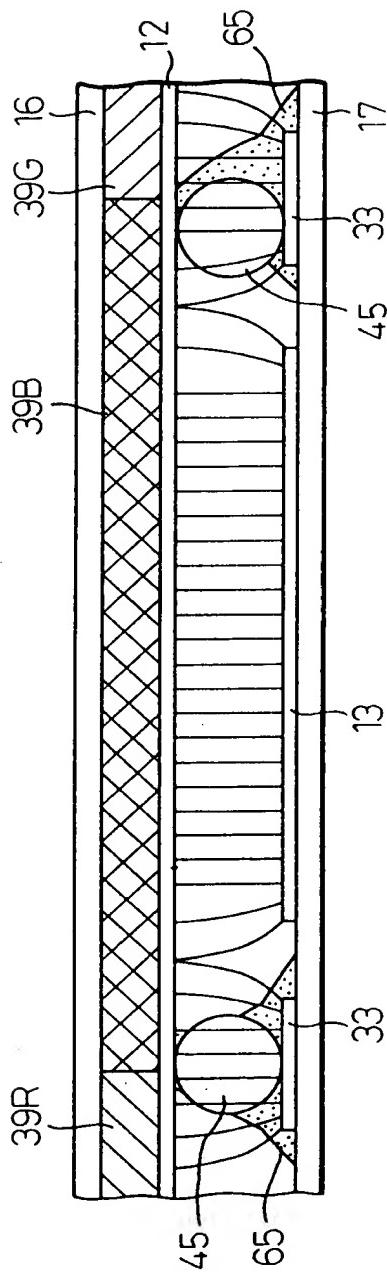


Fig. 165B



~~161~~
246

Fig. 166A

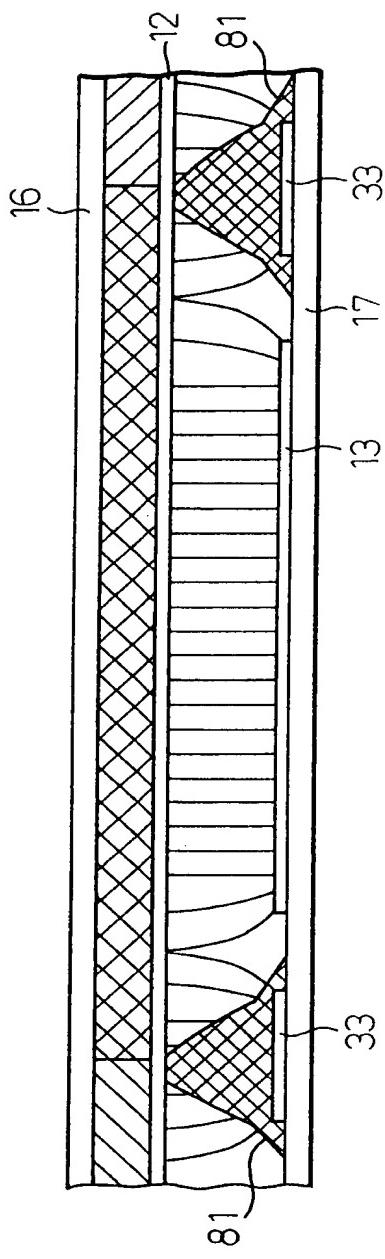


Fig. 166B

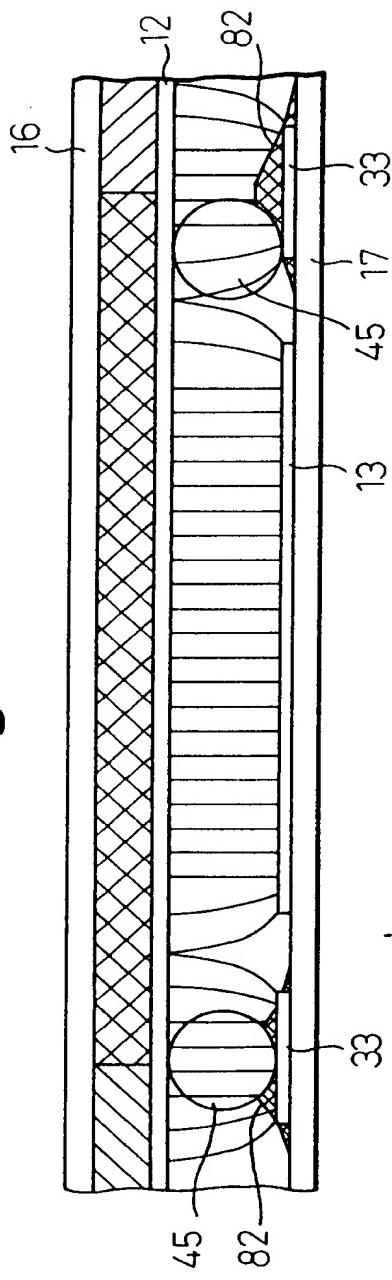
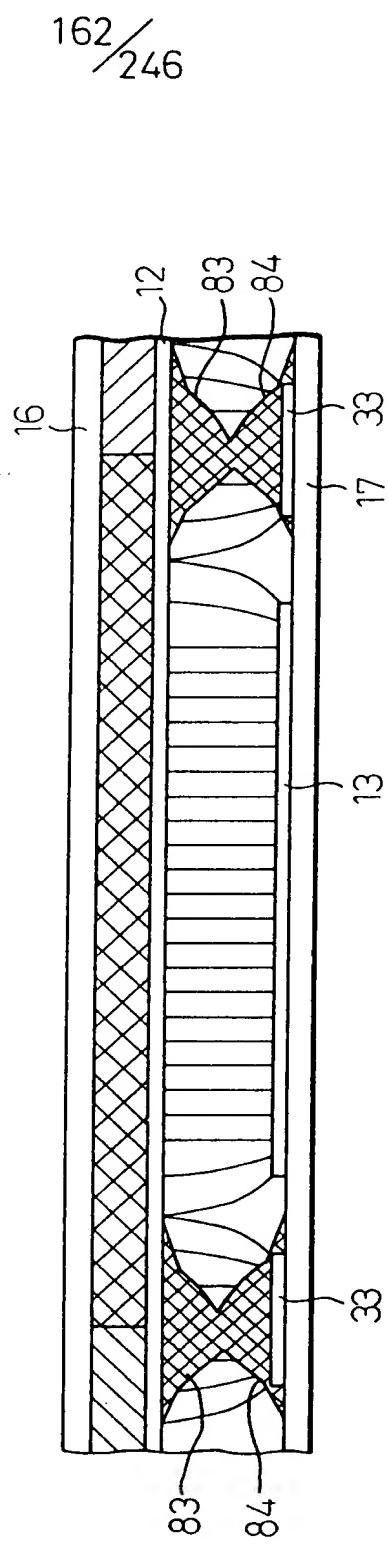


Fig. 167



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Fig. 168 A

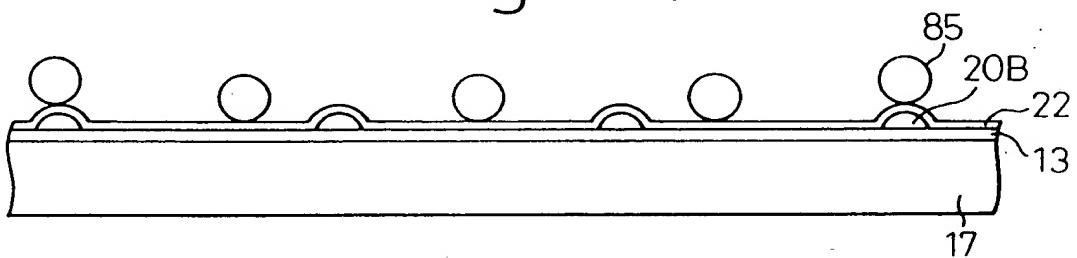


Fig. 168 B

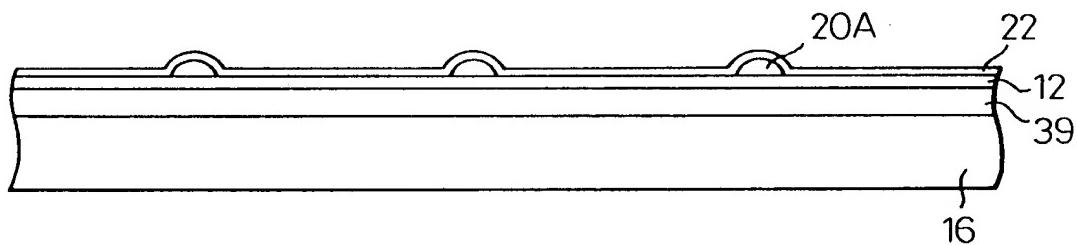


Fig. 168 C

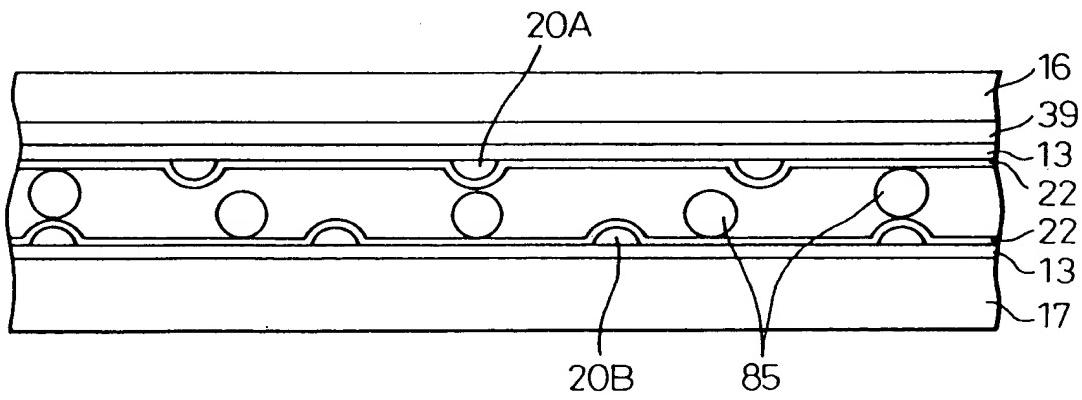


Fig. 169

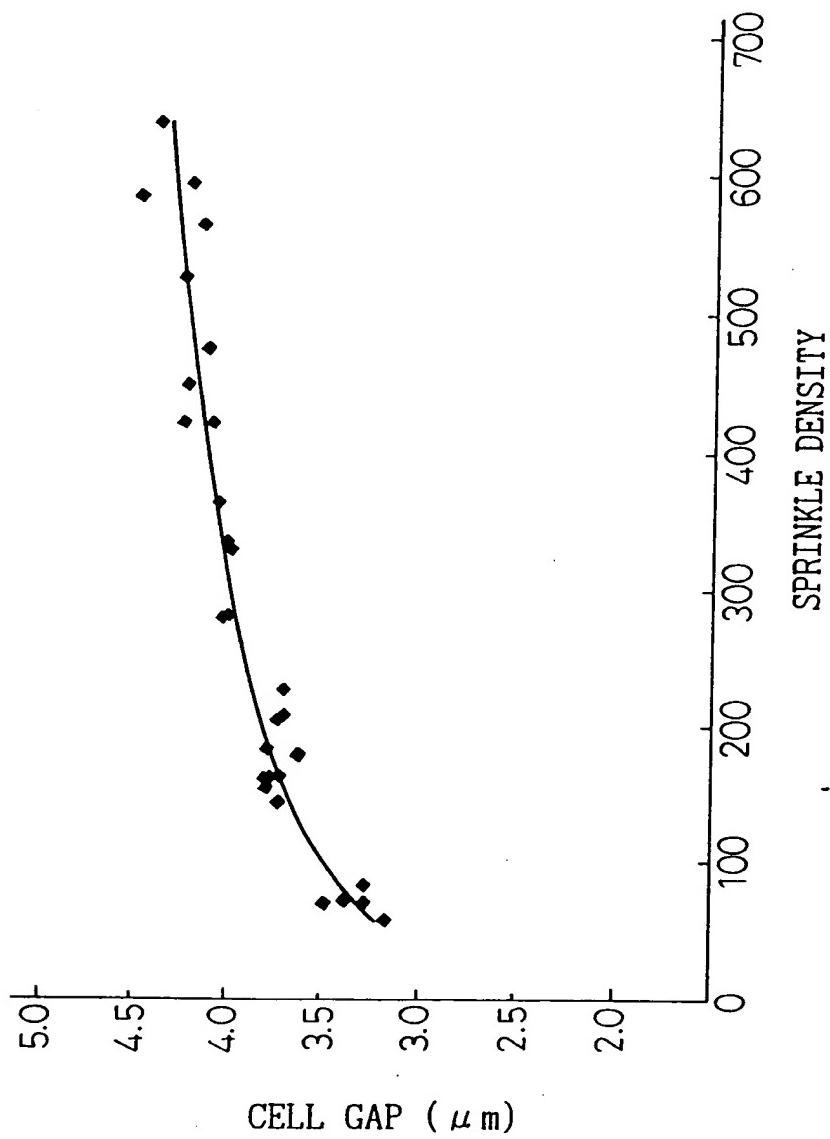


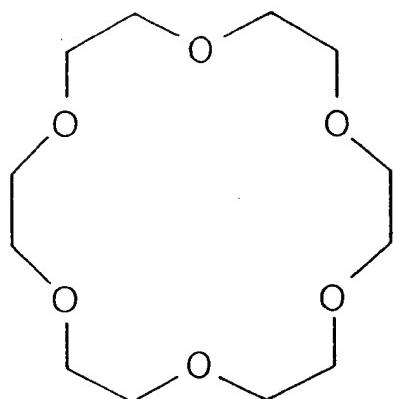
Fig. 170

SPRINKLE DENSITY OF SPACERS (NUMBERS/mm ²)	50	100	150	200	250	300	350	400	450	500	550
BLEMISH OCCURRENCE DUE TO PUSHING	YES	YES	NO								
BLEMISH OCCURRENCE DUE TO PULLING	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES

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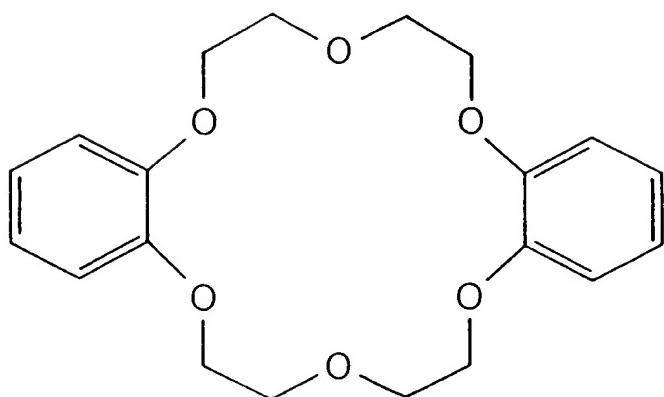
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Fig.171A



18-CROWN-6

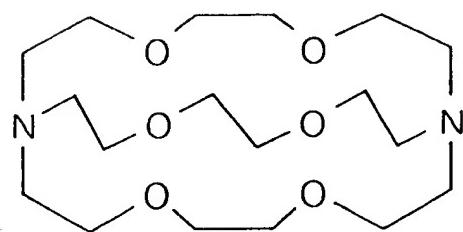
Fig.171B



DIBENZOYL-18-CROWN-6

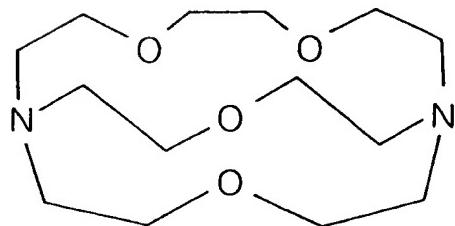
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Fig.172A



CRYPTAND [2.2.2]

Fig.172B



CRYPTAND [2.1.1]

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Fig.173A

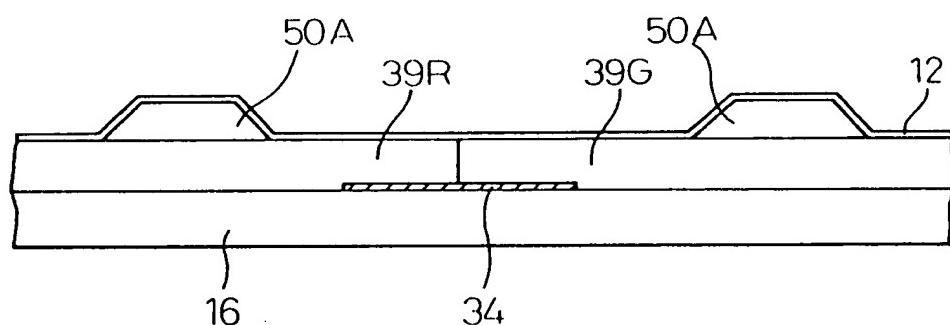
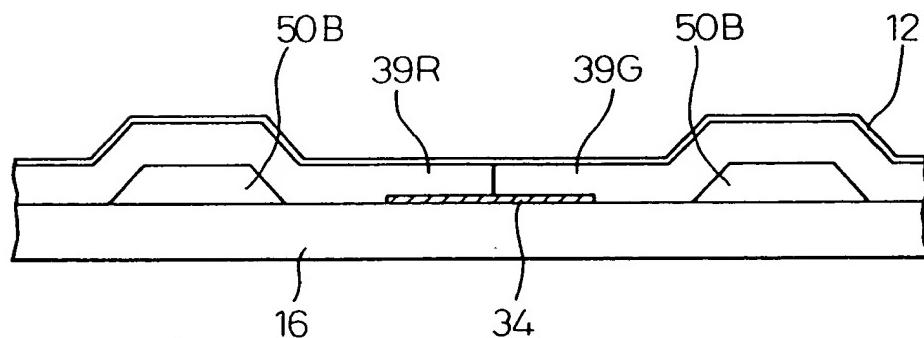
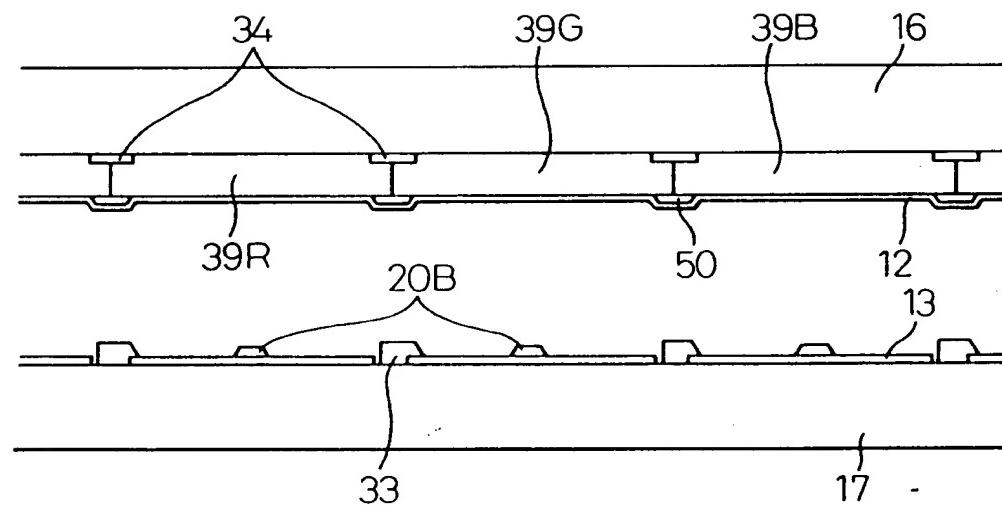


Fig.173B



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Fig. 174



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Fig.175A

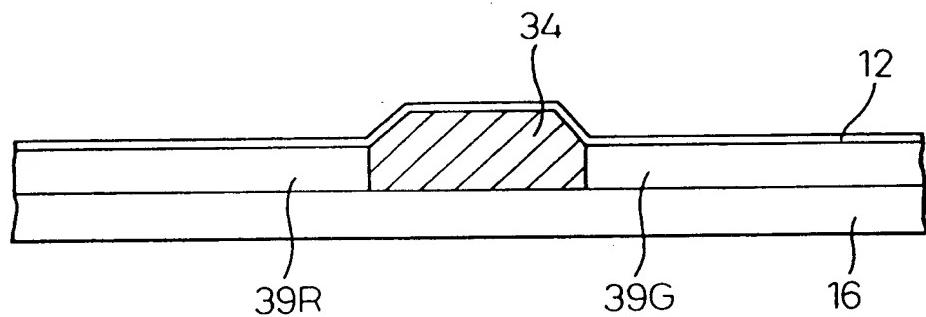
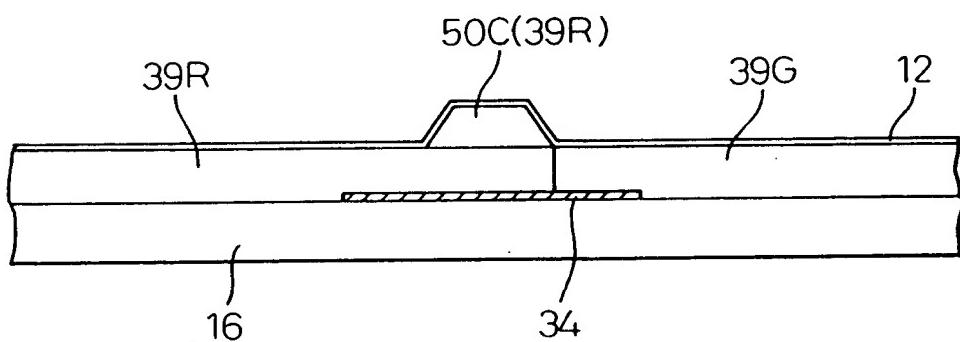


Fig.175B



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Fig.176A

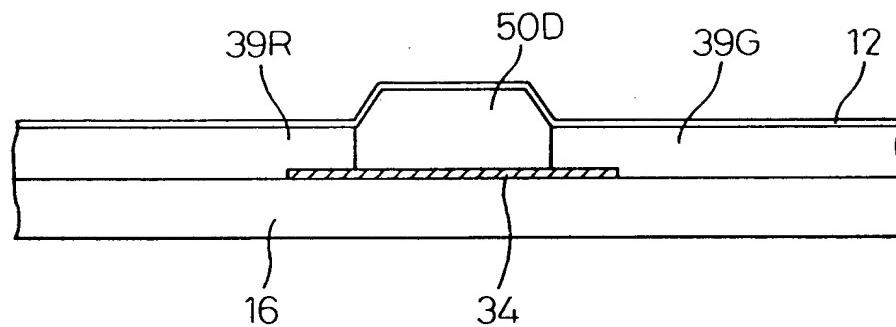
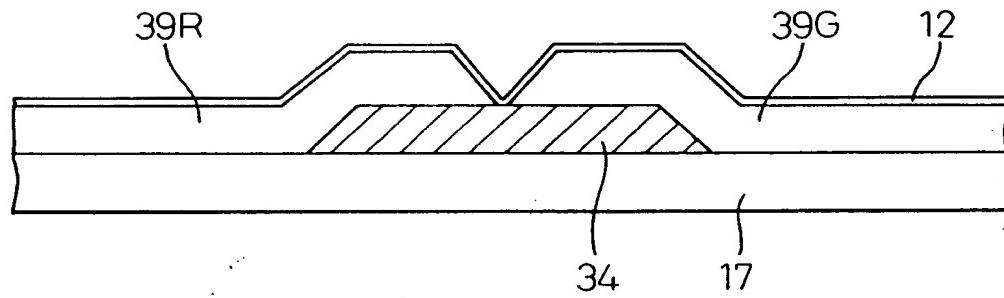


Fig.176B



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Fig.177A

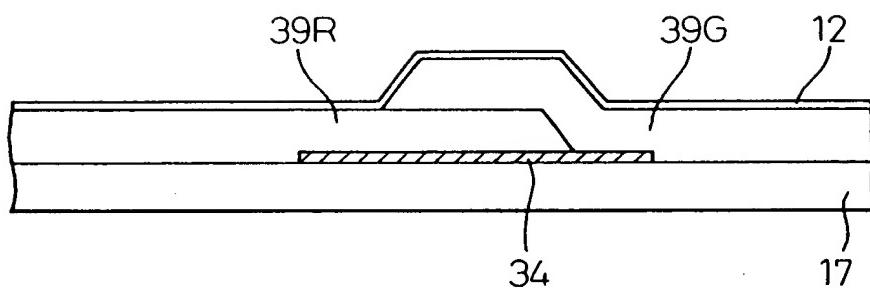
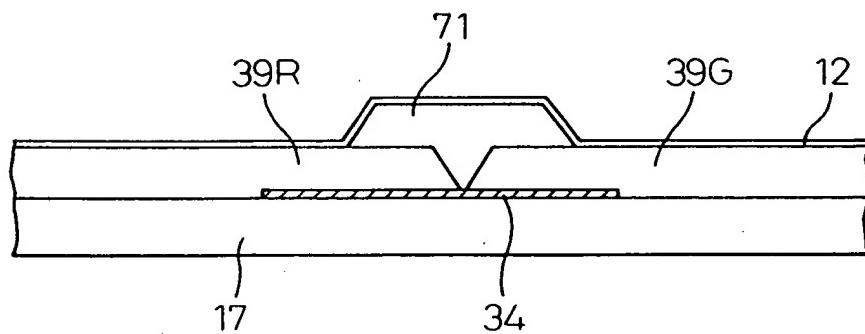
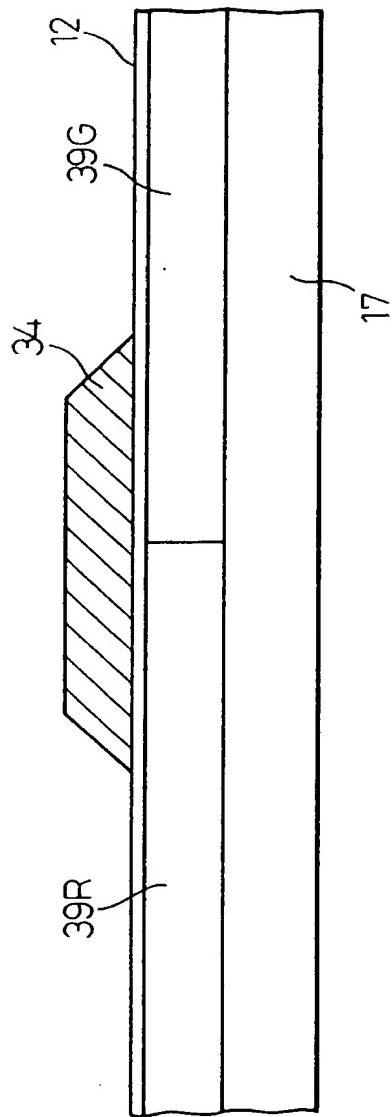


Fig.177B



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Fig. 178



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Fig. 179A

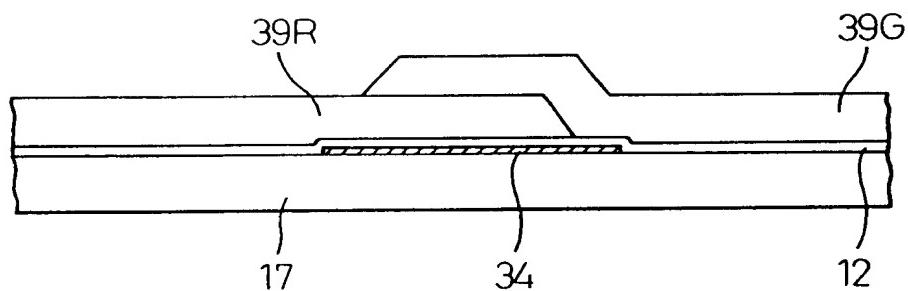
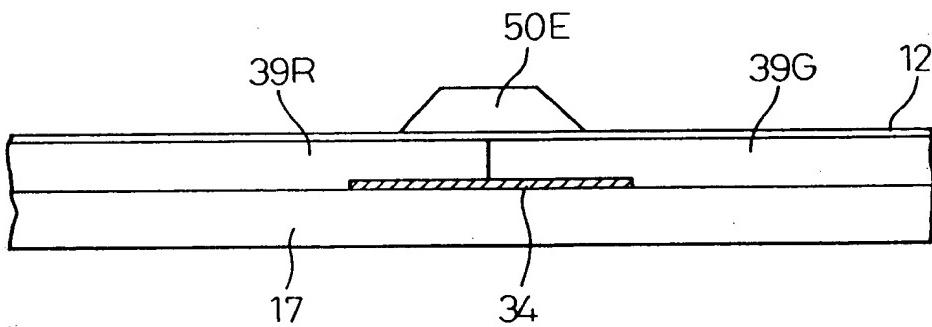


Fig. 179B



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Fig. 180 A

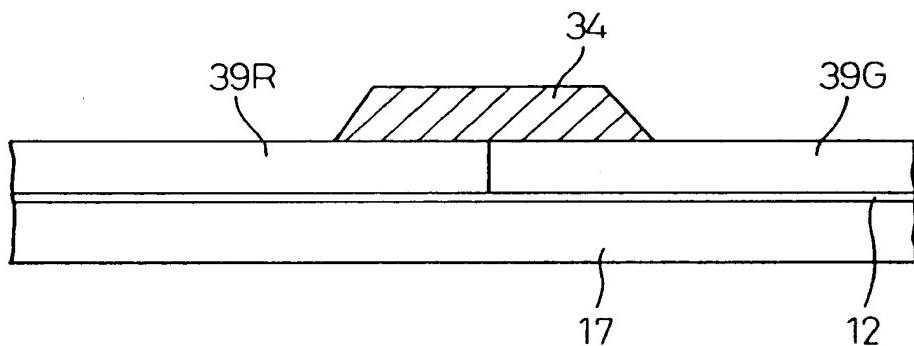
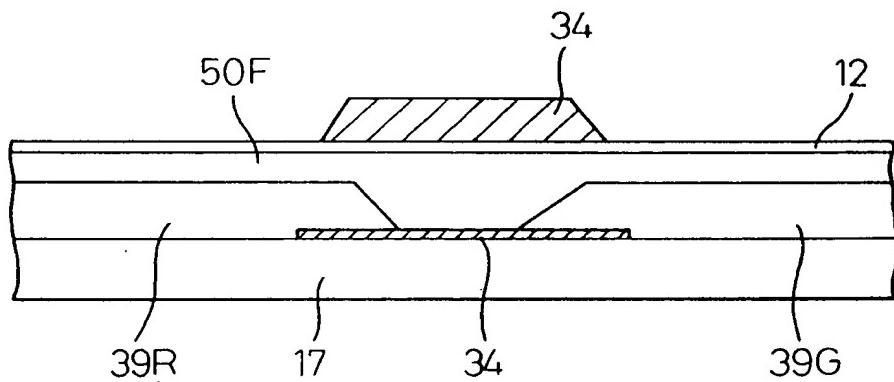


Fig. 180 B



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Fig.181A

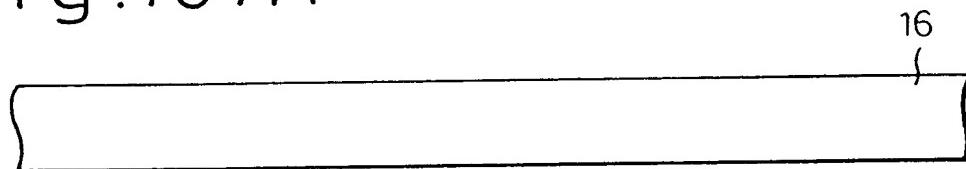


Fig.181B

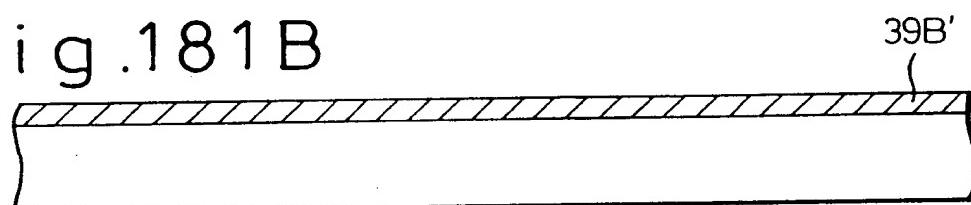


Fig.181C

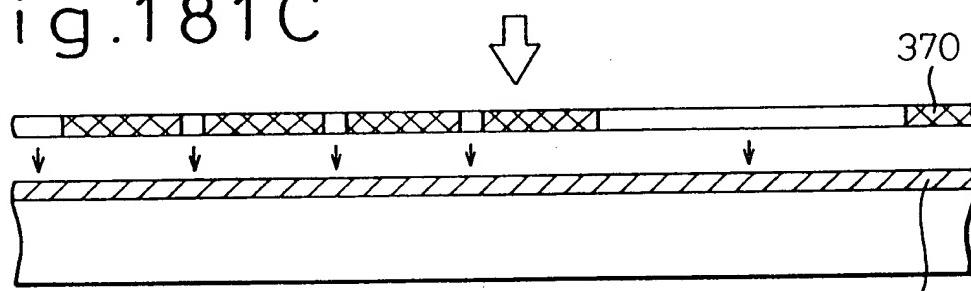
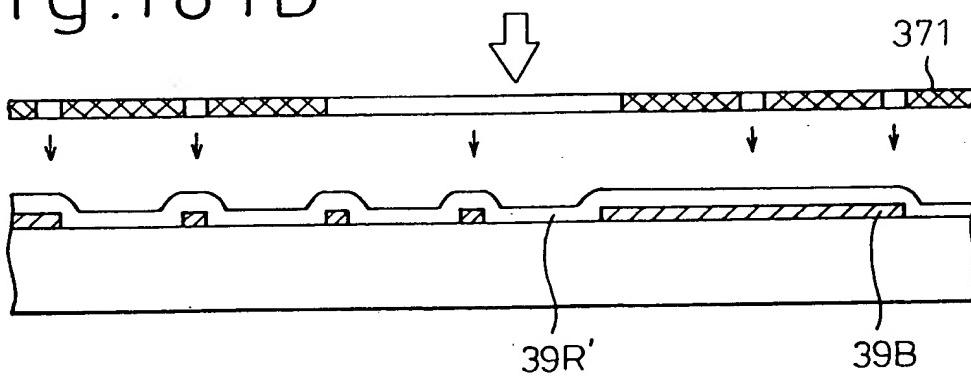


Fig.181D



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Fig. 181E

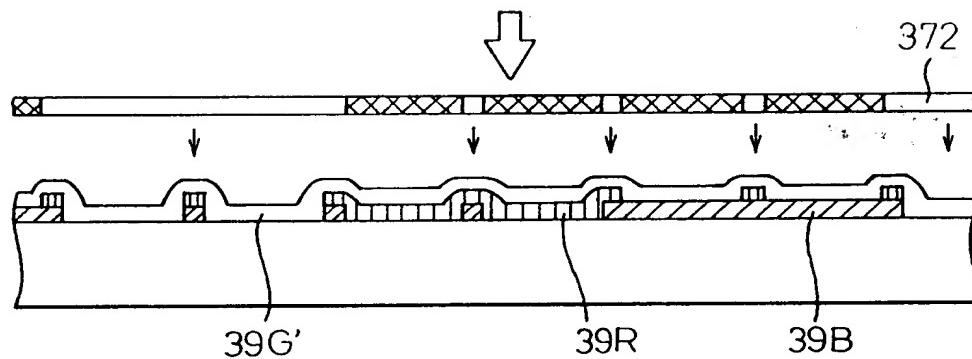


Fig. 181F

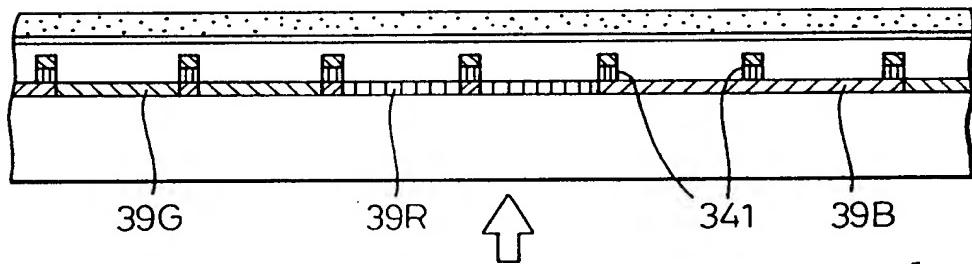
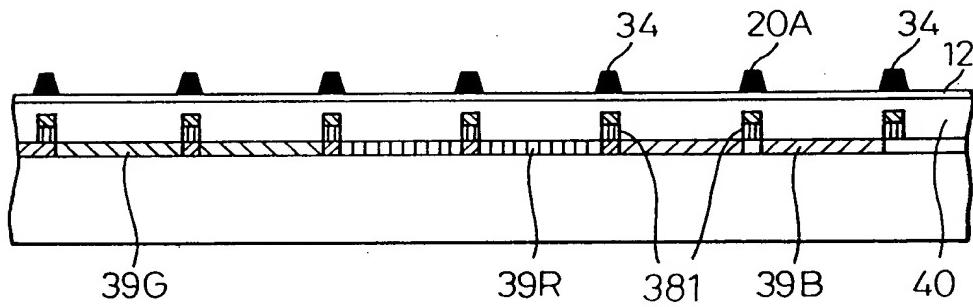
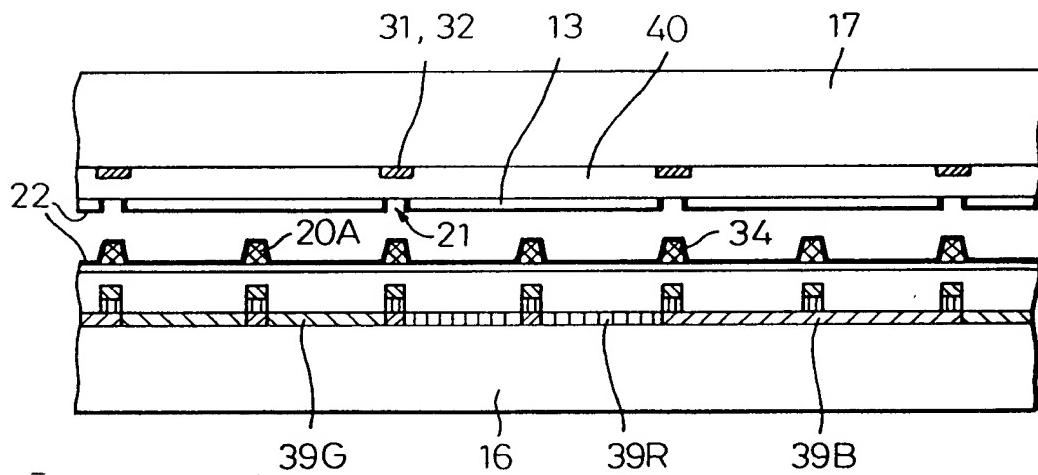


Fig. 181G



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Fig.182



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Fig. 183 A

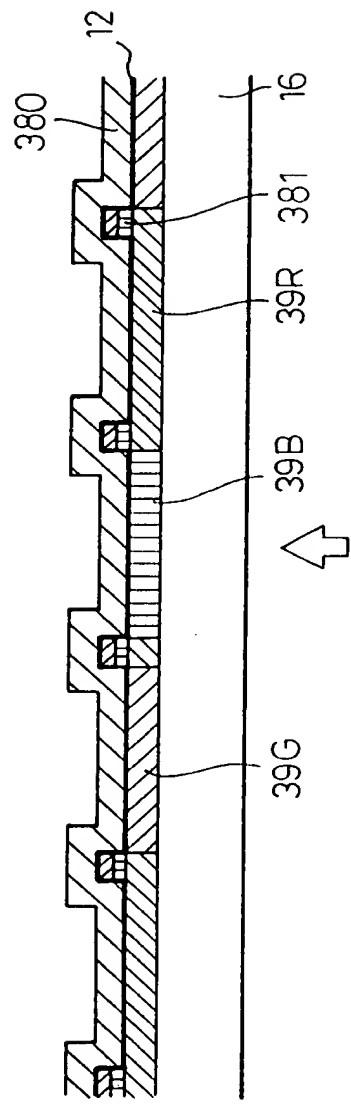
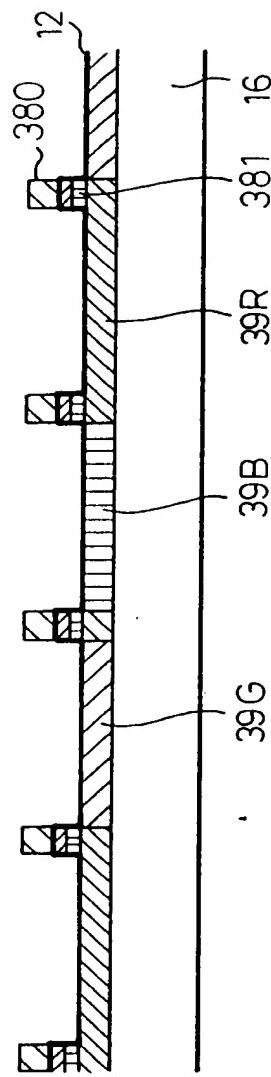


Fig. 183 B



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Fig. 184A

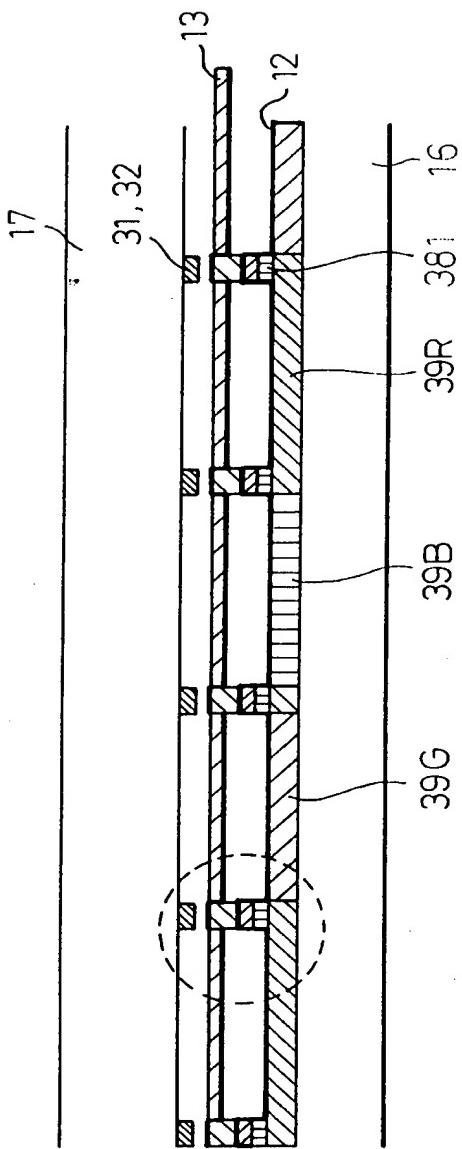
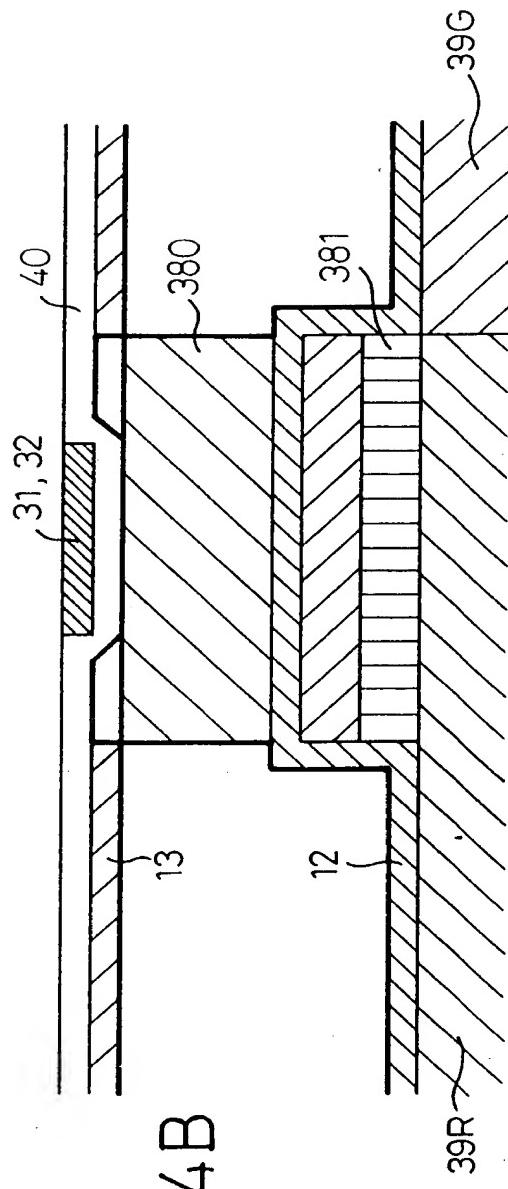


Fig. 184B



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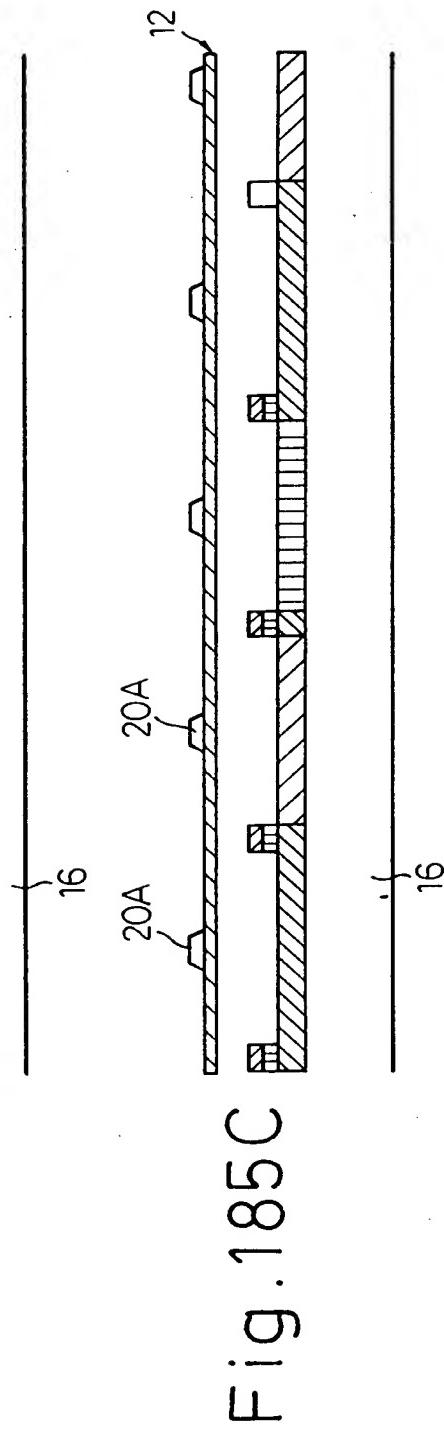
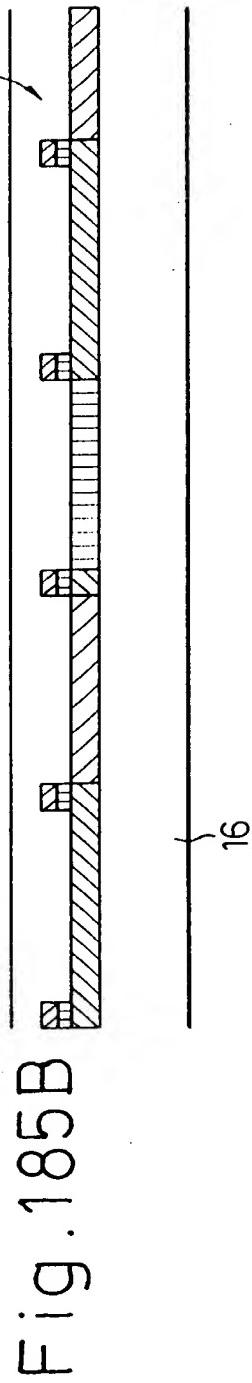
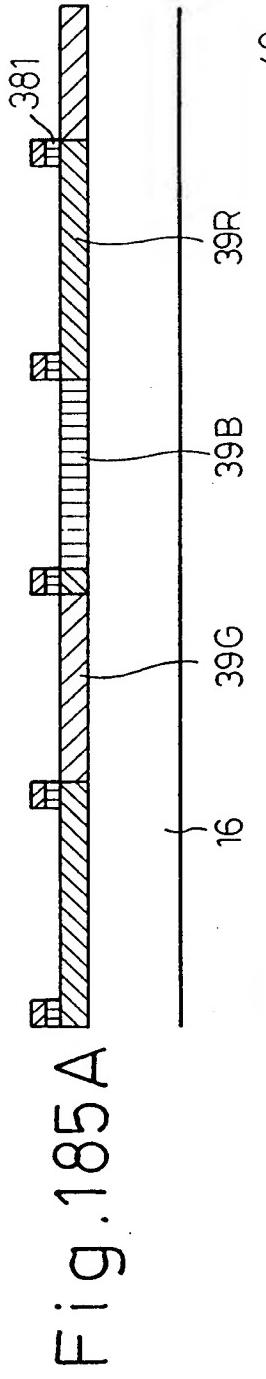
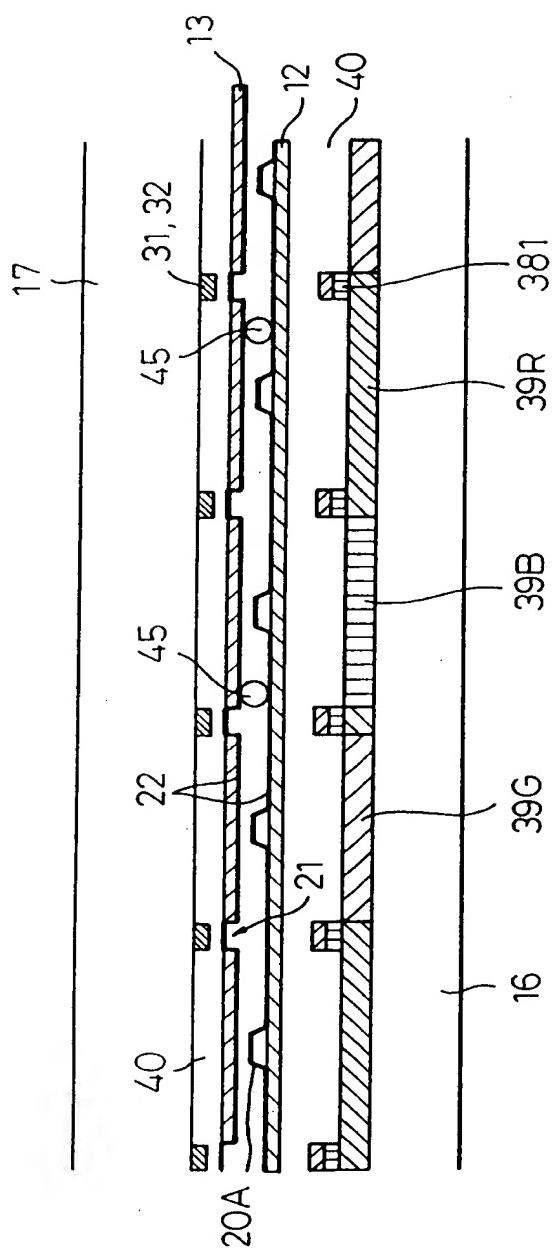
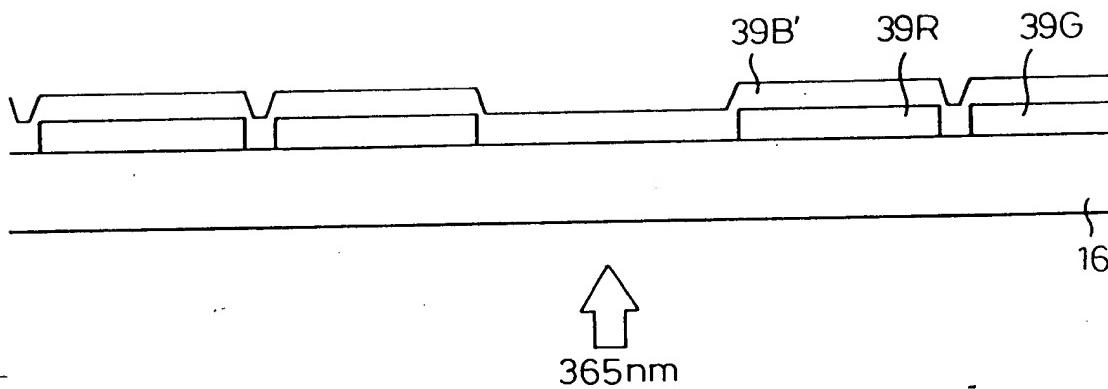


Fig. 186



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Fig.187



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Fig. 188A

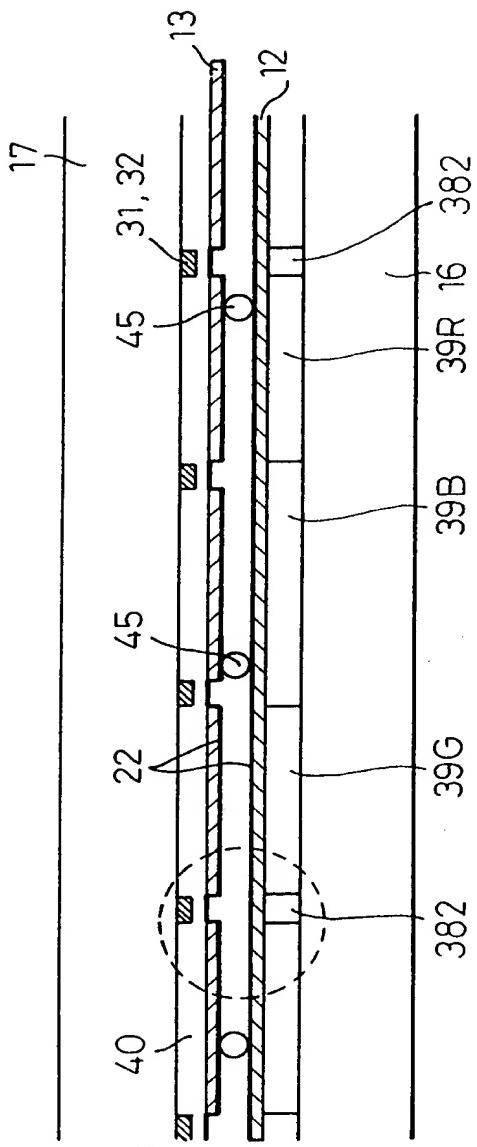
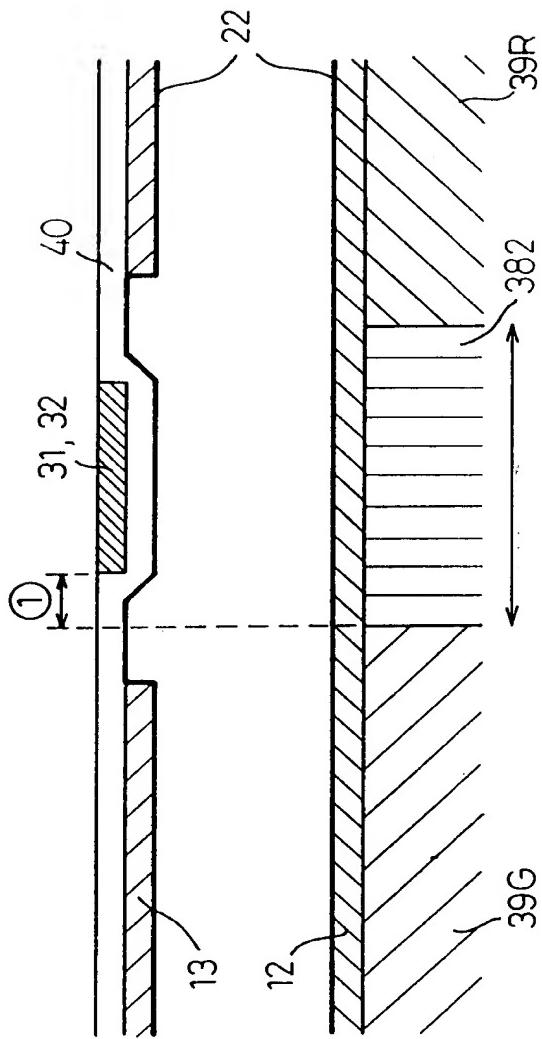


Fig. 188B



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Fig.189

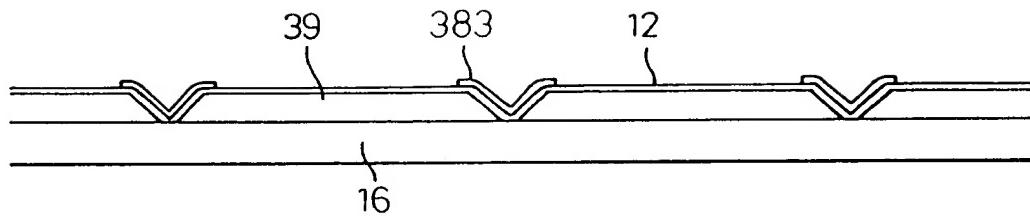


Fig.190A

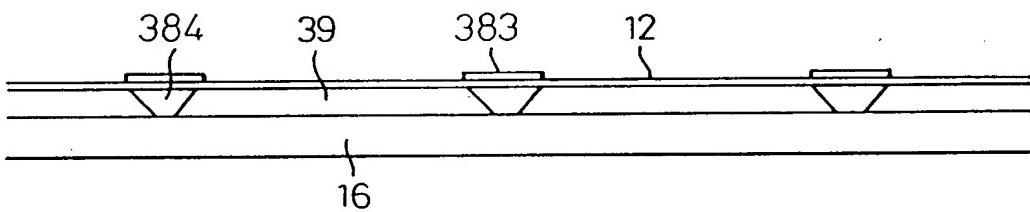
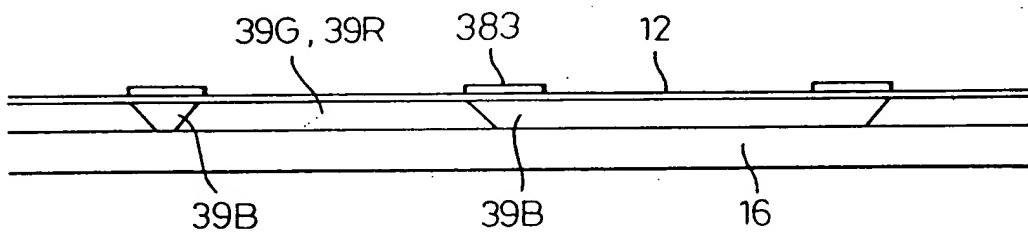


Fig.190B



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Fig.191

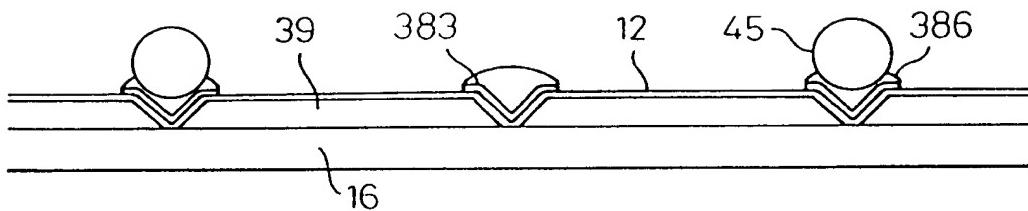


Fig.192

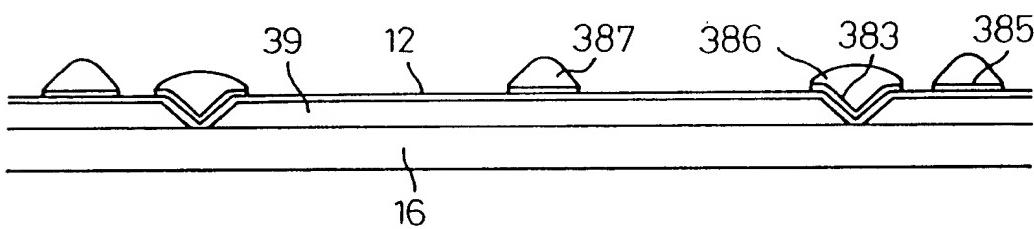
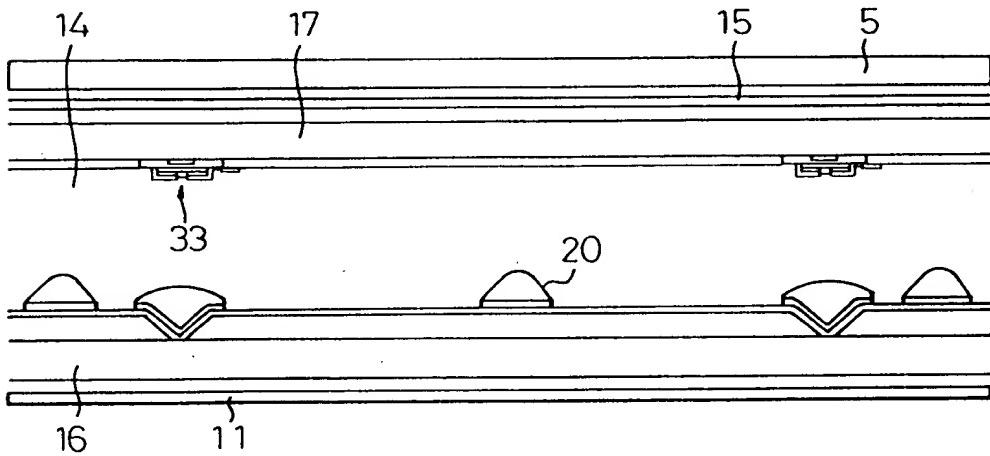


Fig.193



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Fig.194

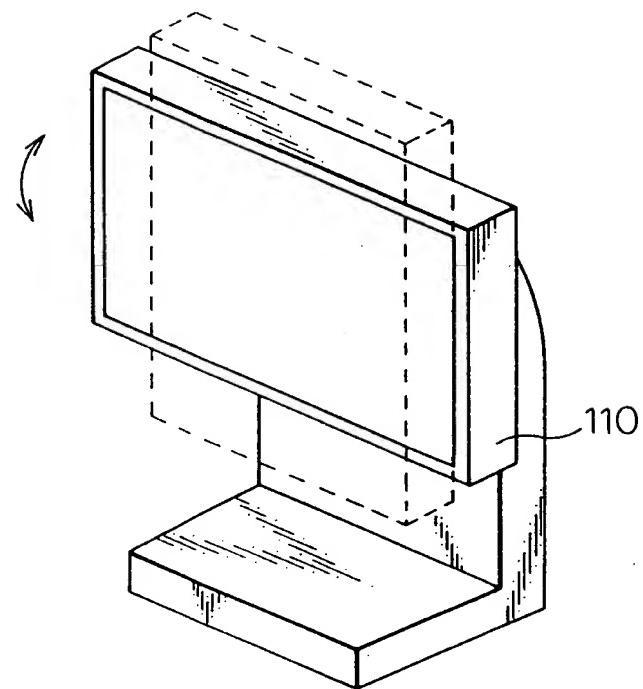
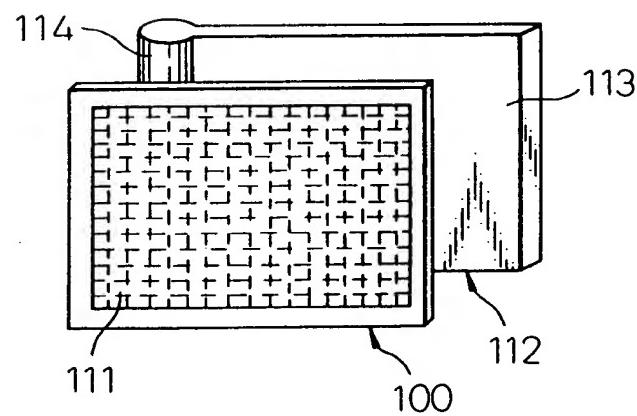


Fig.195



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Fig.196A

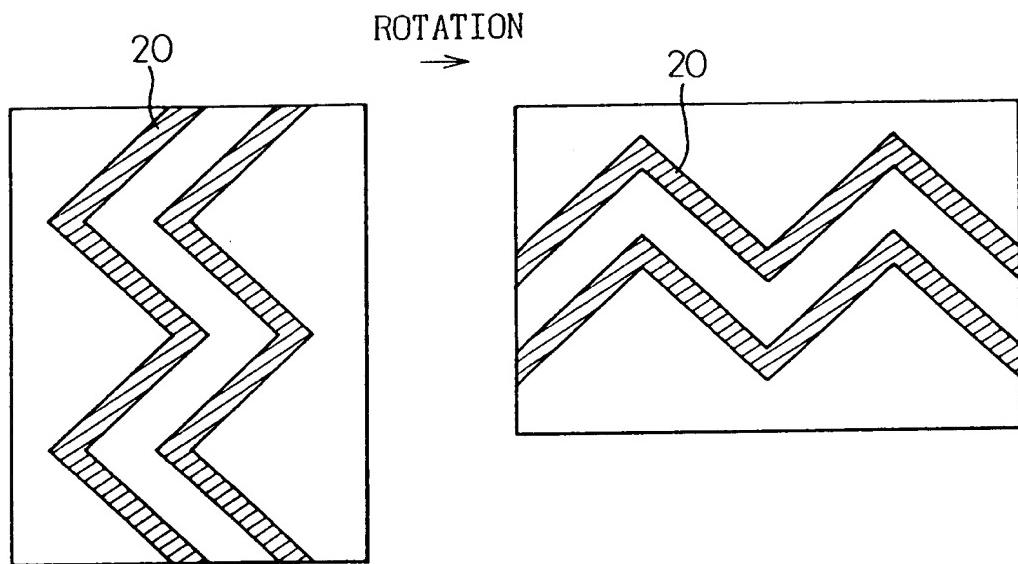
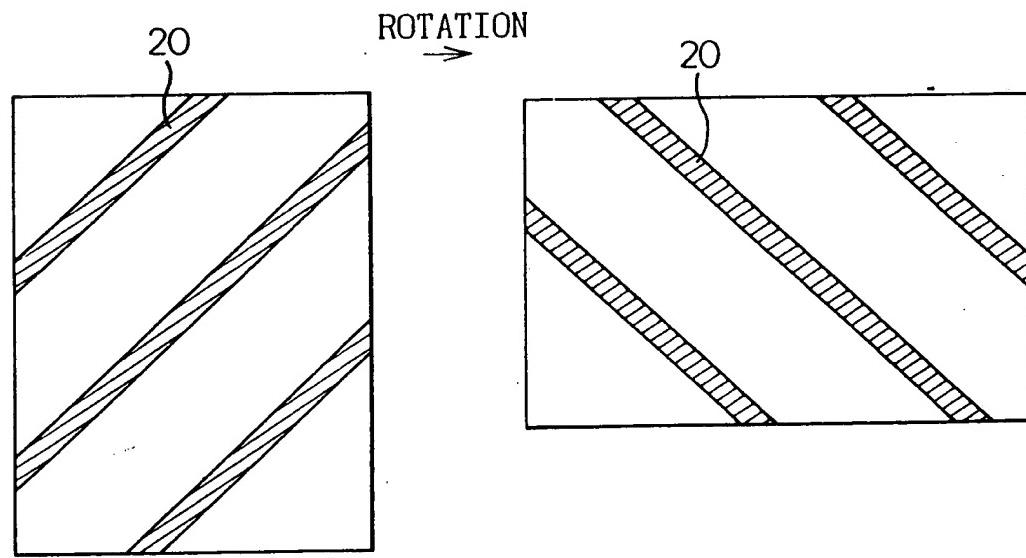
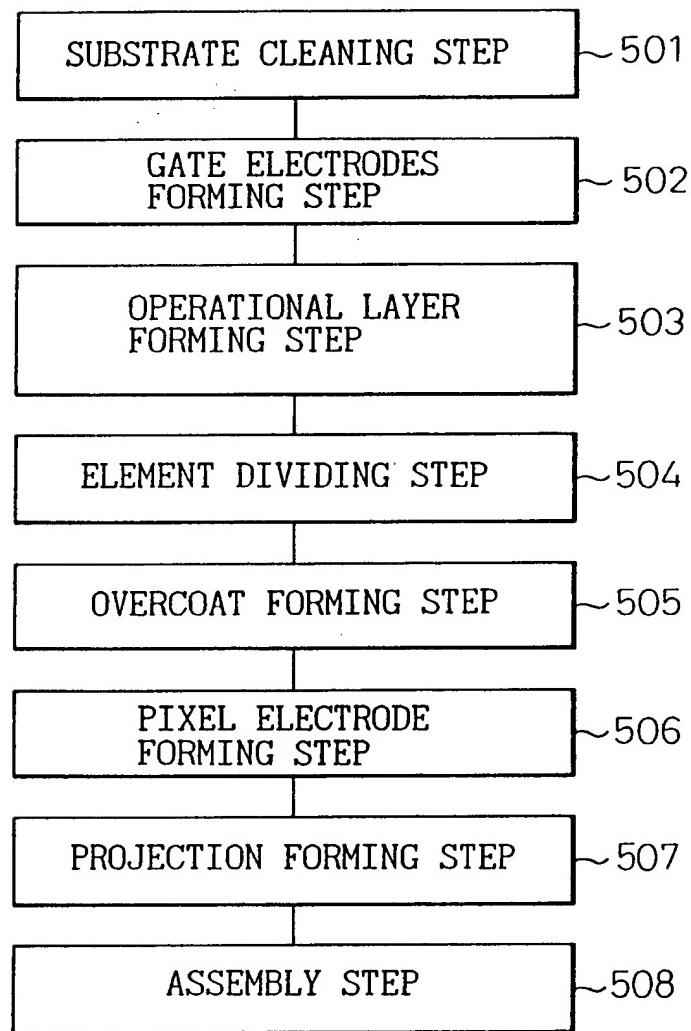


Fig.196B



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Fig.197



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Fig.198

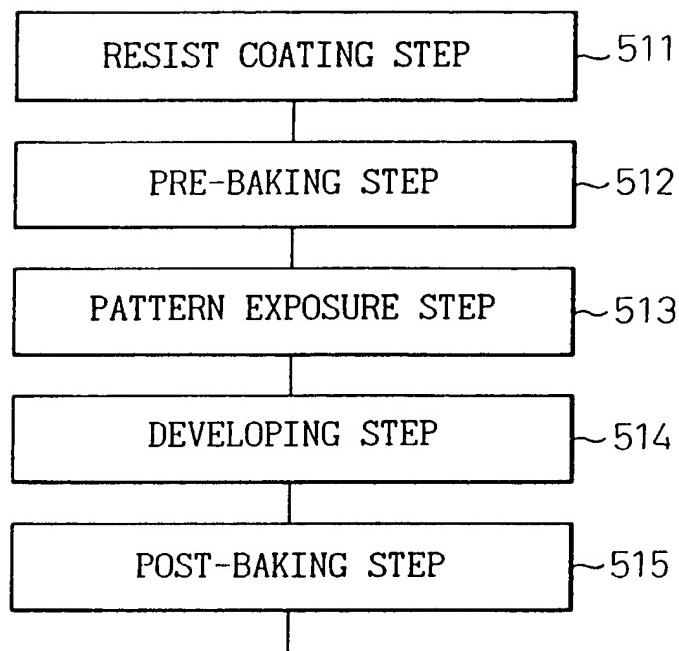


Fig.199

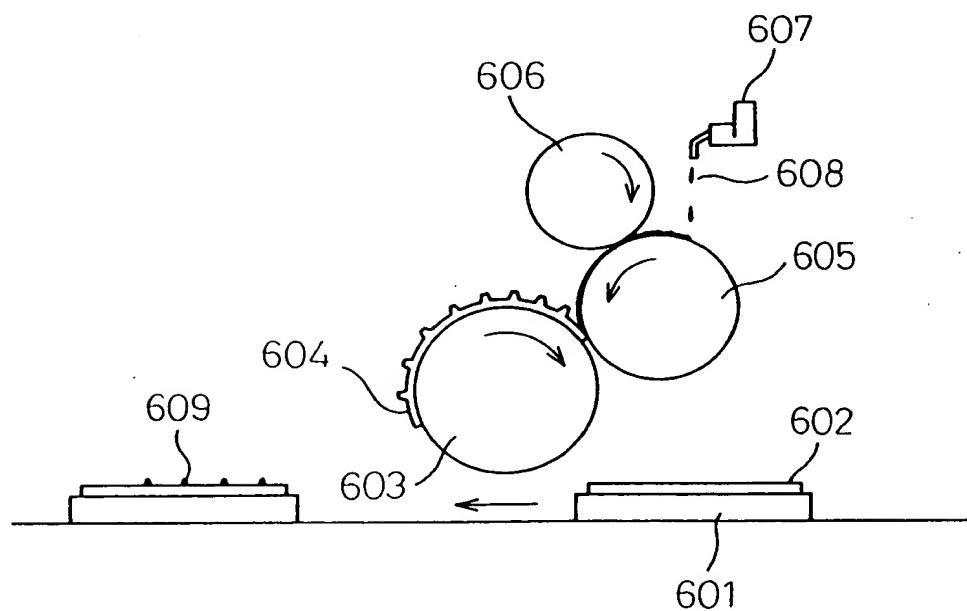
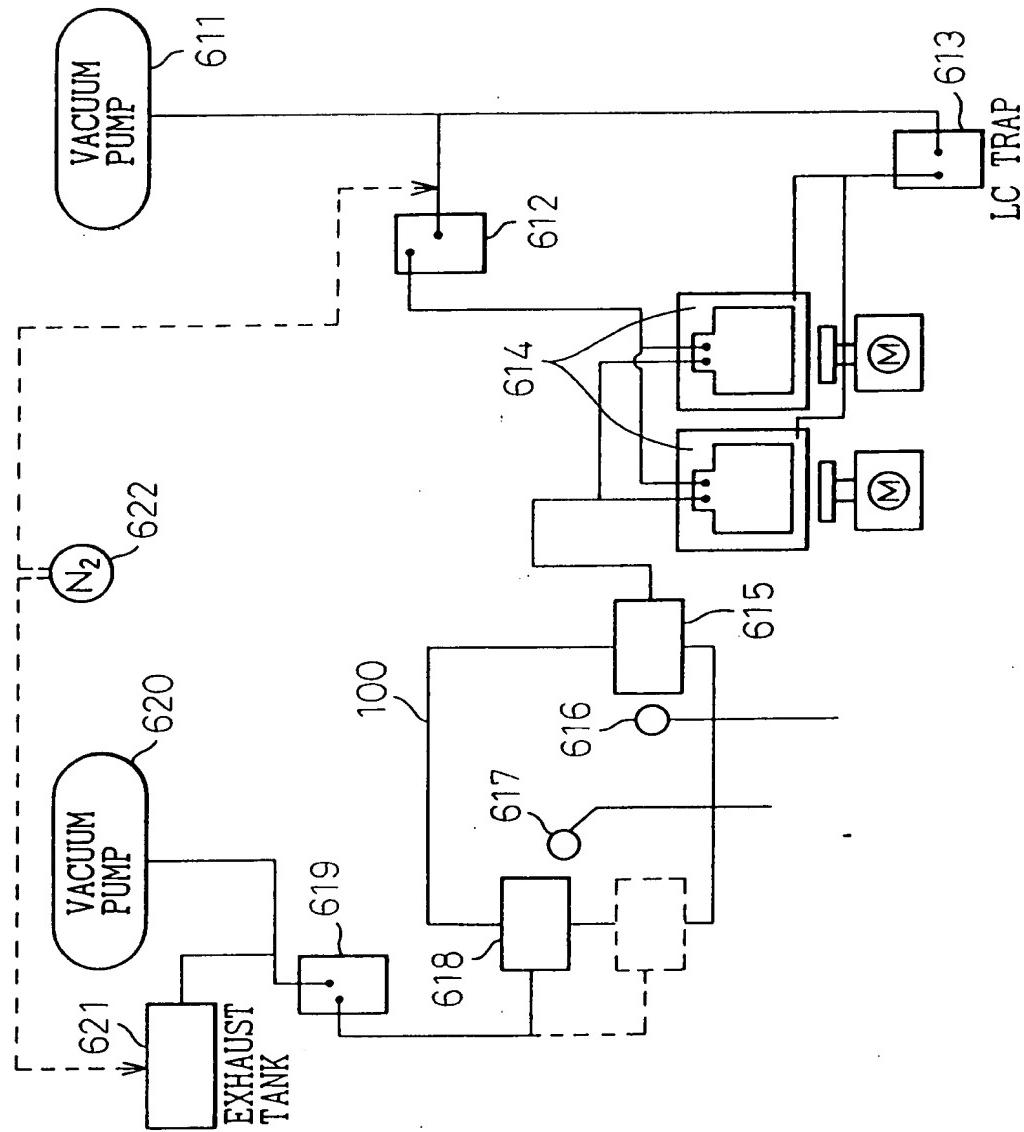


Fig. 200

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Fig. 201A

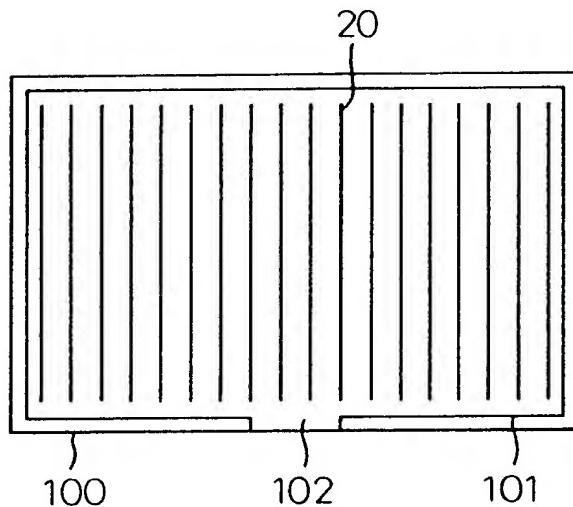
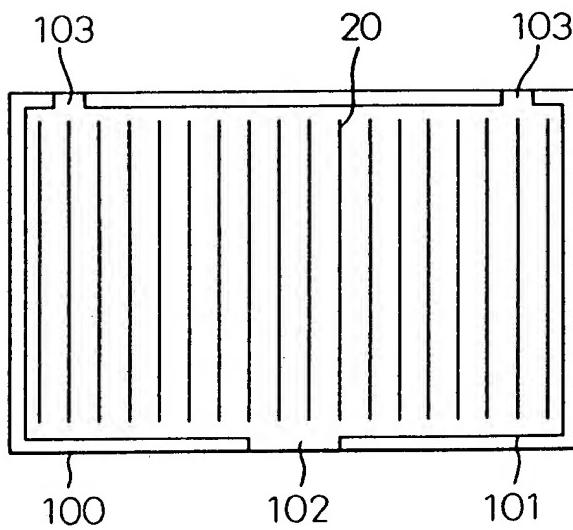


Fig. 201B



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Fig. 202A

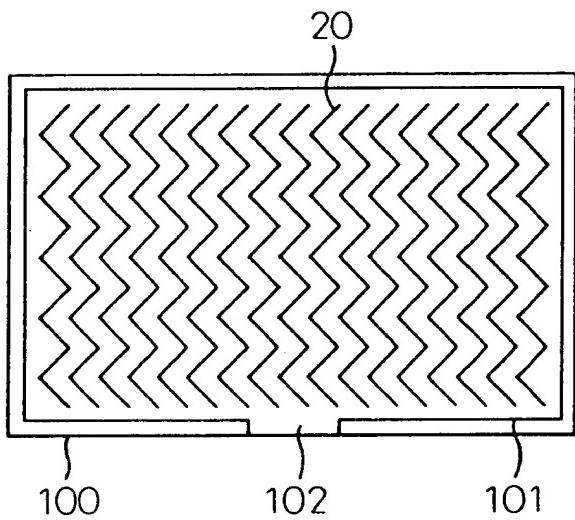
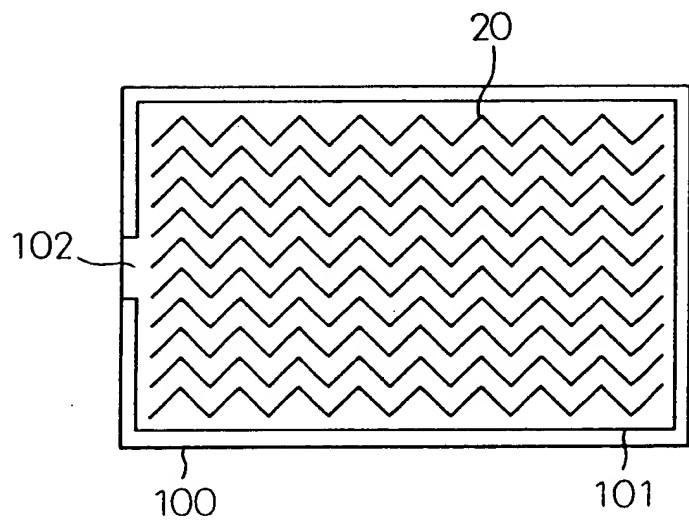


Fig. 202B



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Fig. 203A

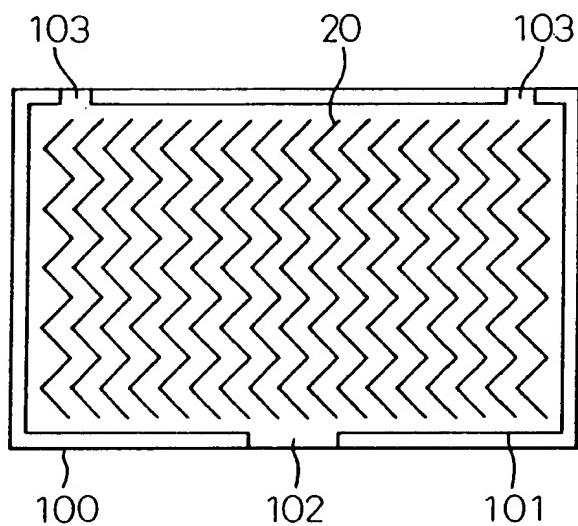
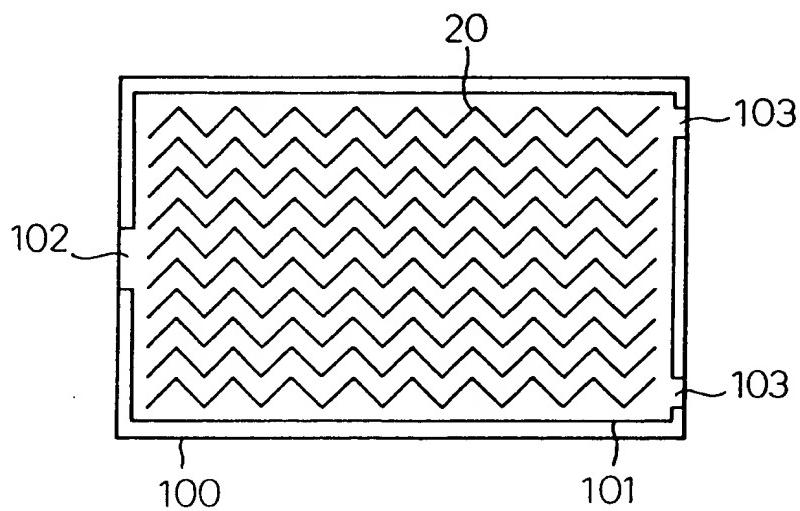
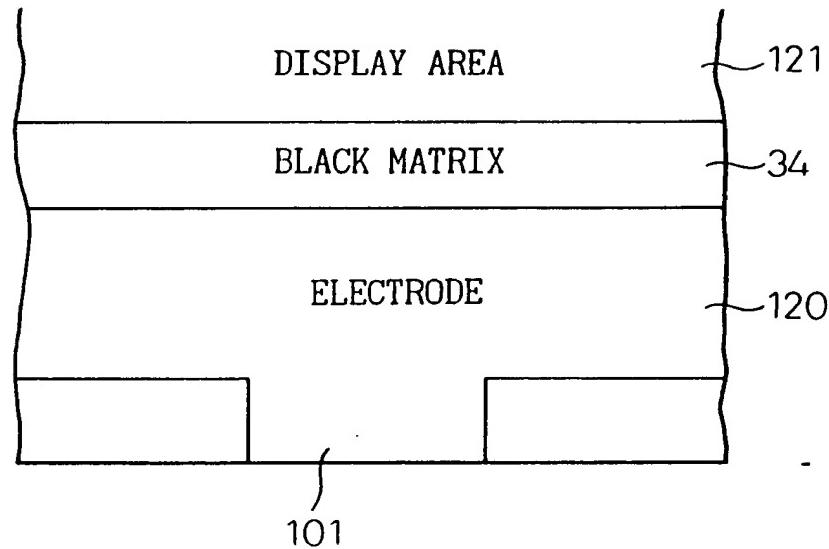


Fig. 203B



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Fig. 204



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Fig. 205 A

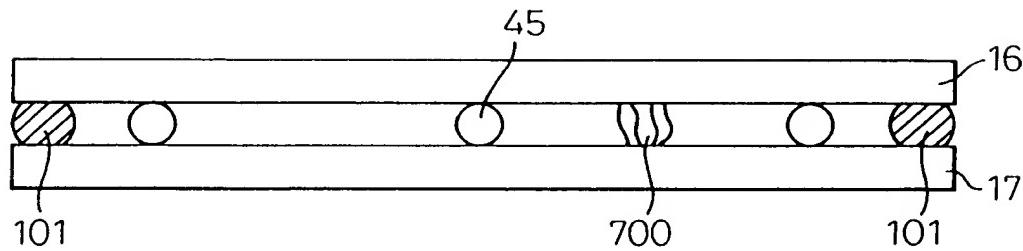


Fig. 205 B

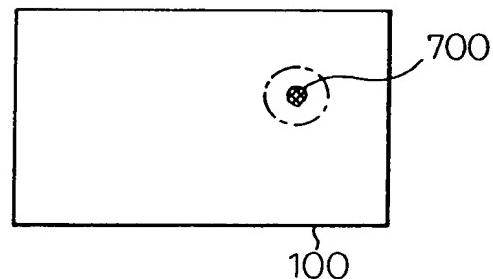
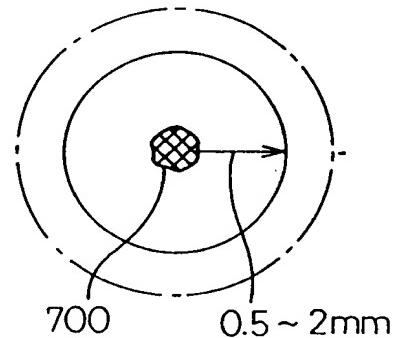


Fig. 205 C



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Fig. 206

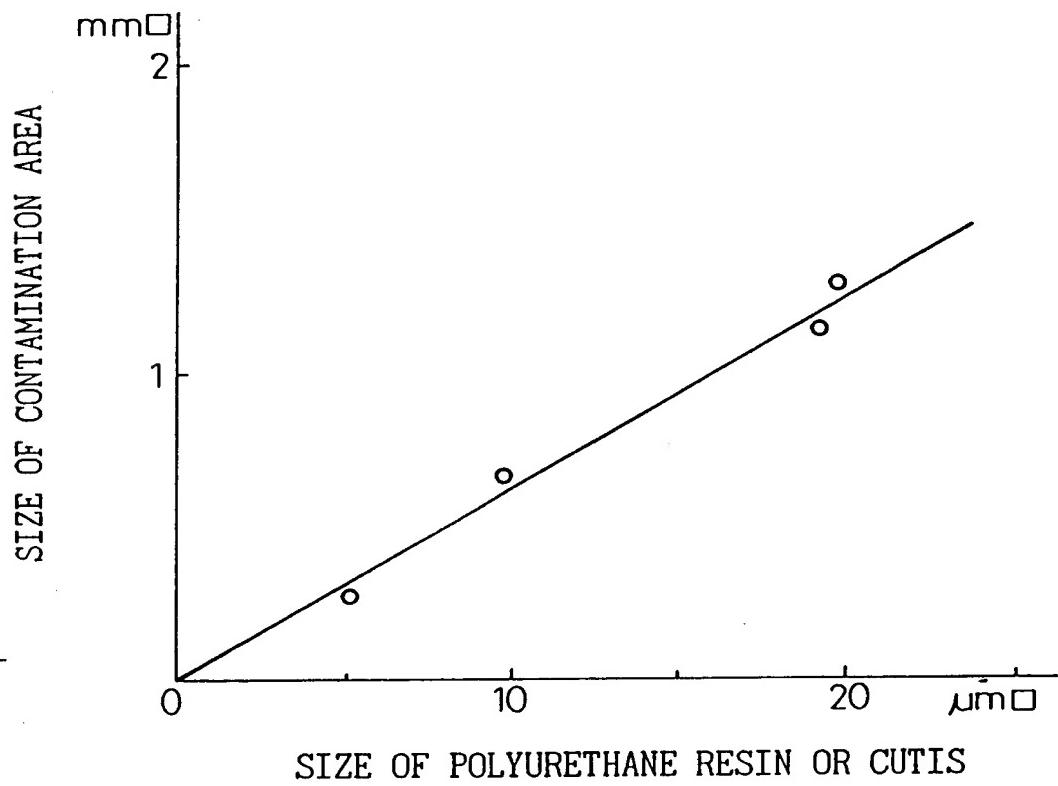


Fig. 207

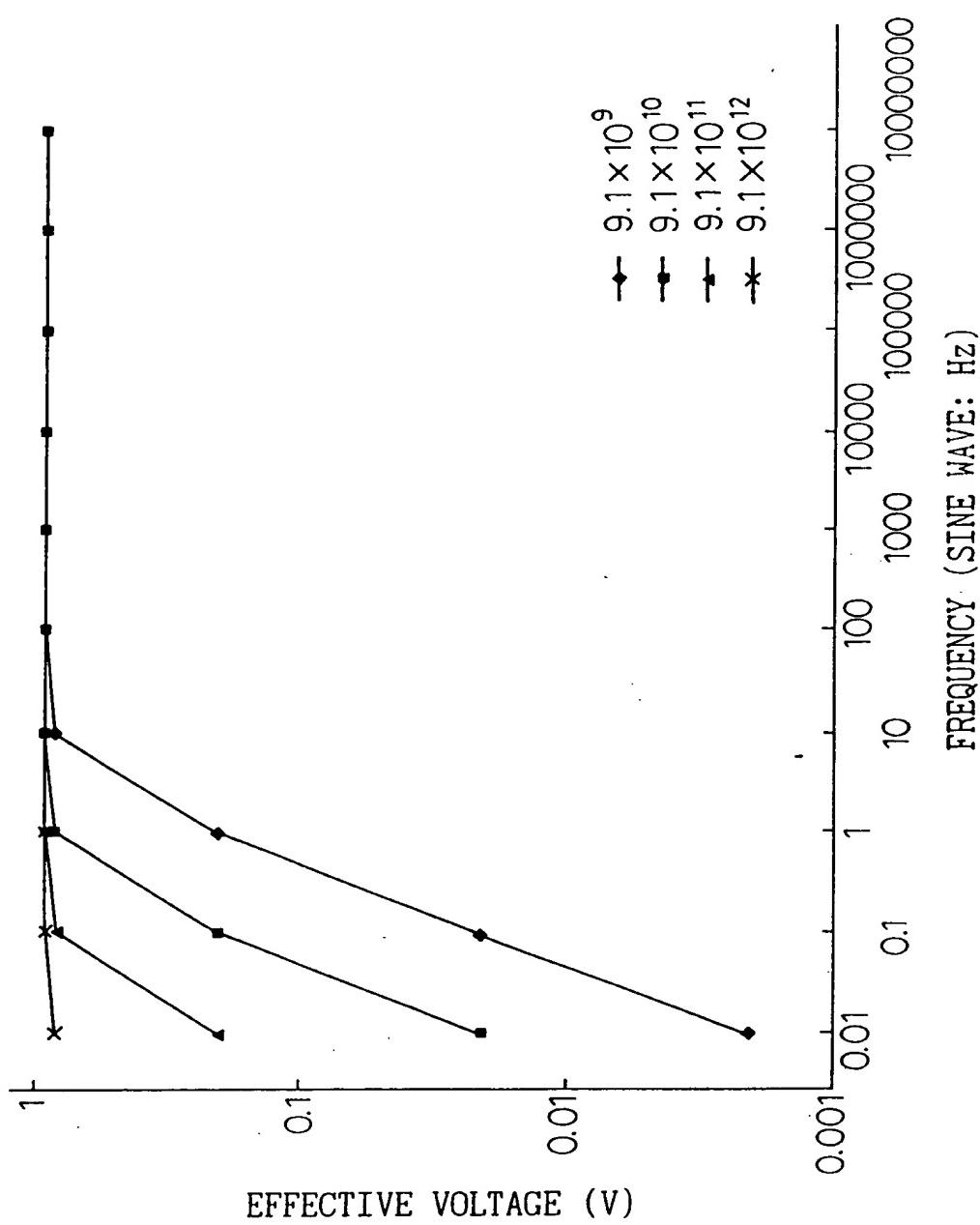
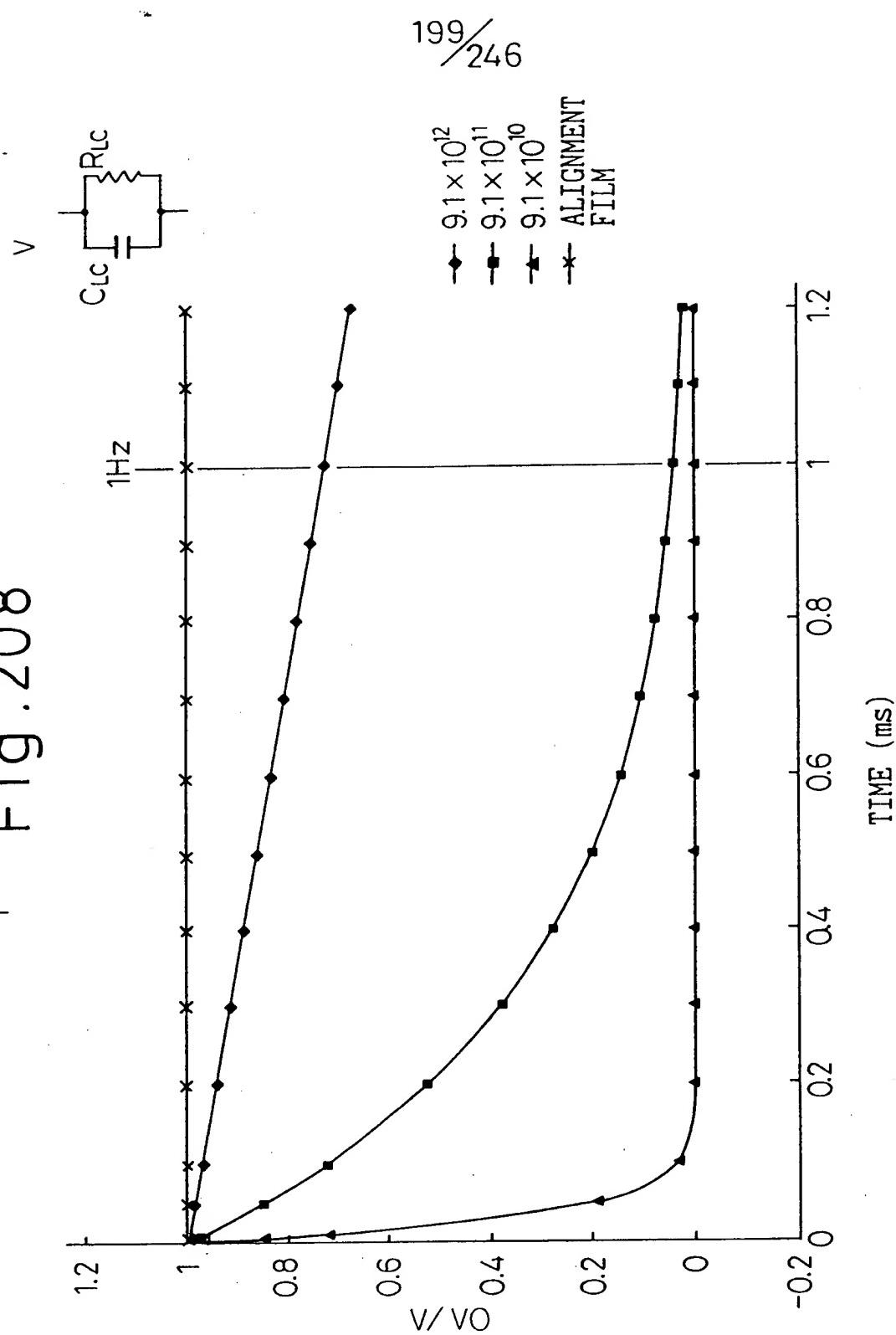
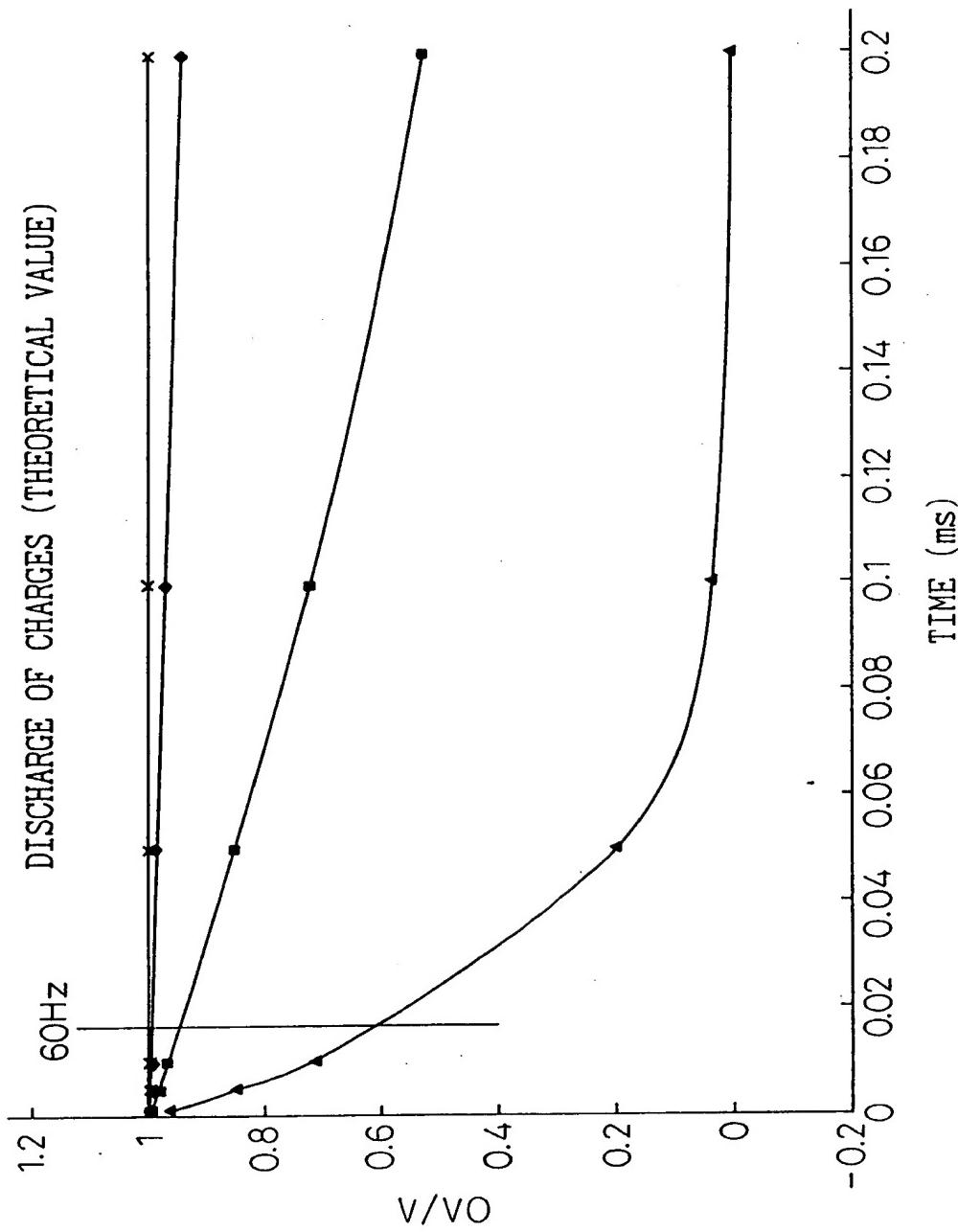


Fig .2008



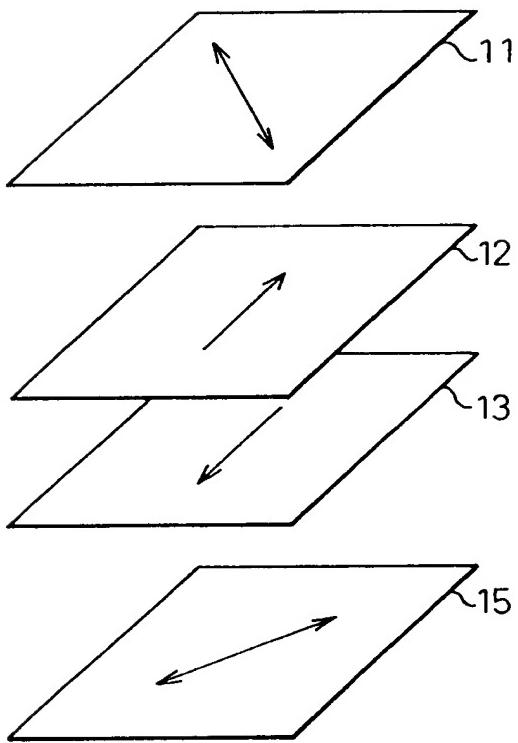
200
246

Fig. 209
DISCHARGE OF CHARGES (THEORETICAL VALUE)



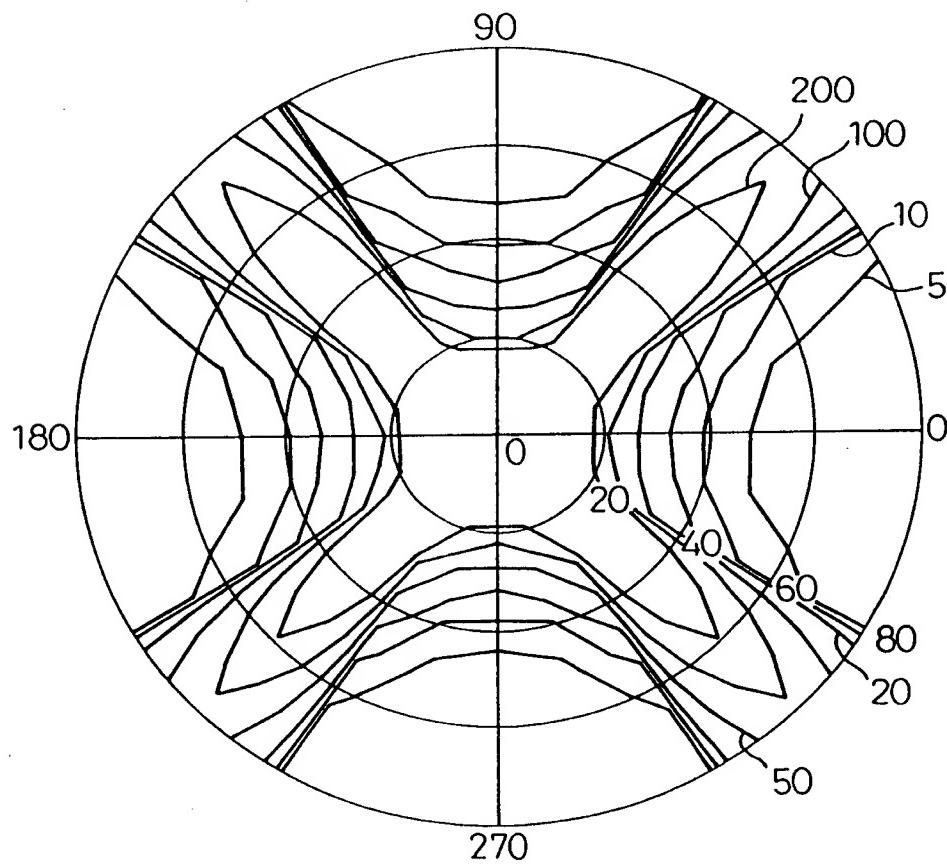
201 /
246

Fig. 210



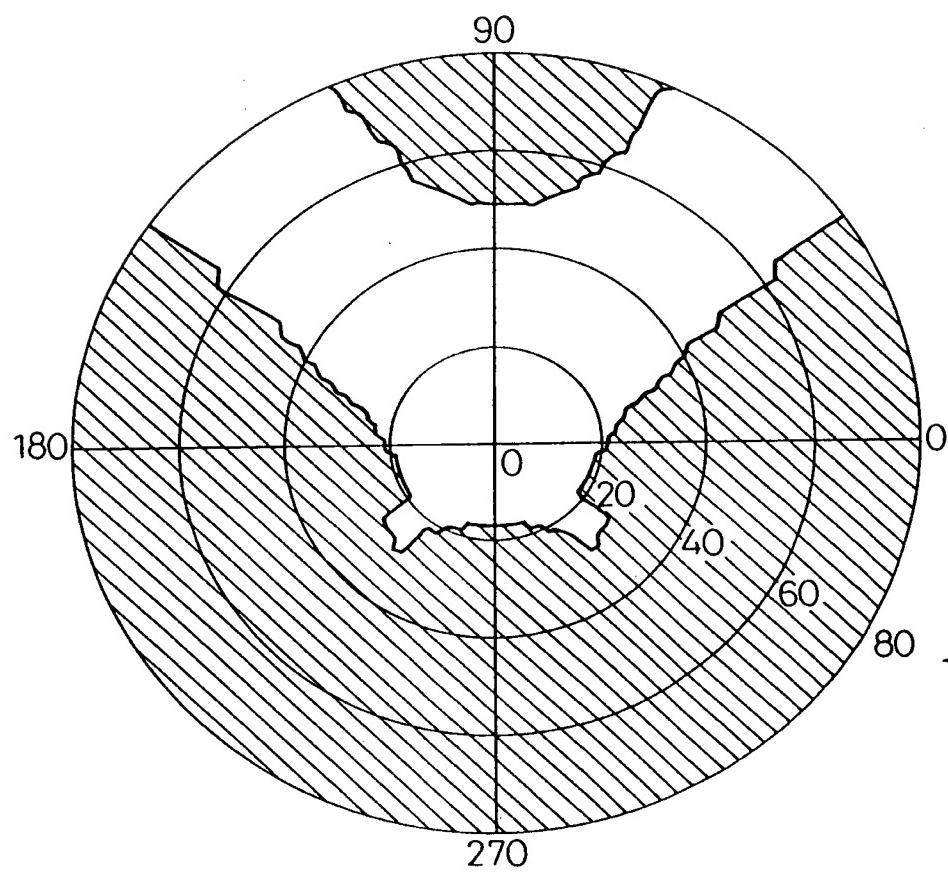
202 /
246

Fig. 211



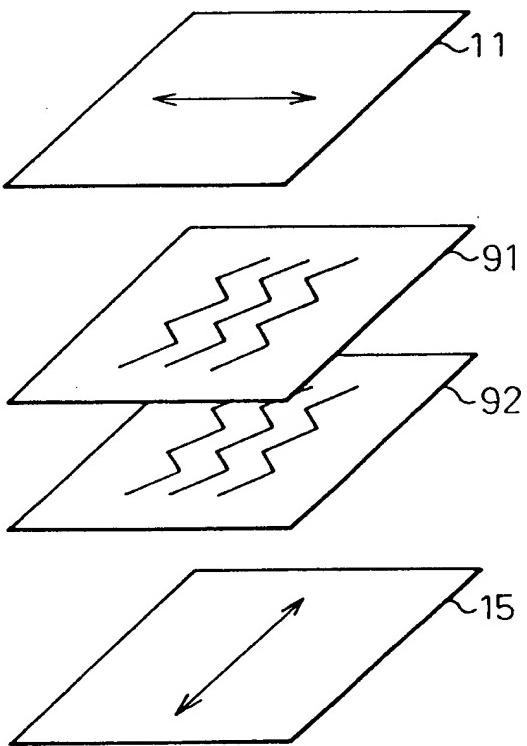
203 /
246

Fig. 212



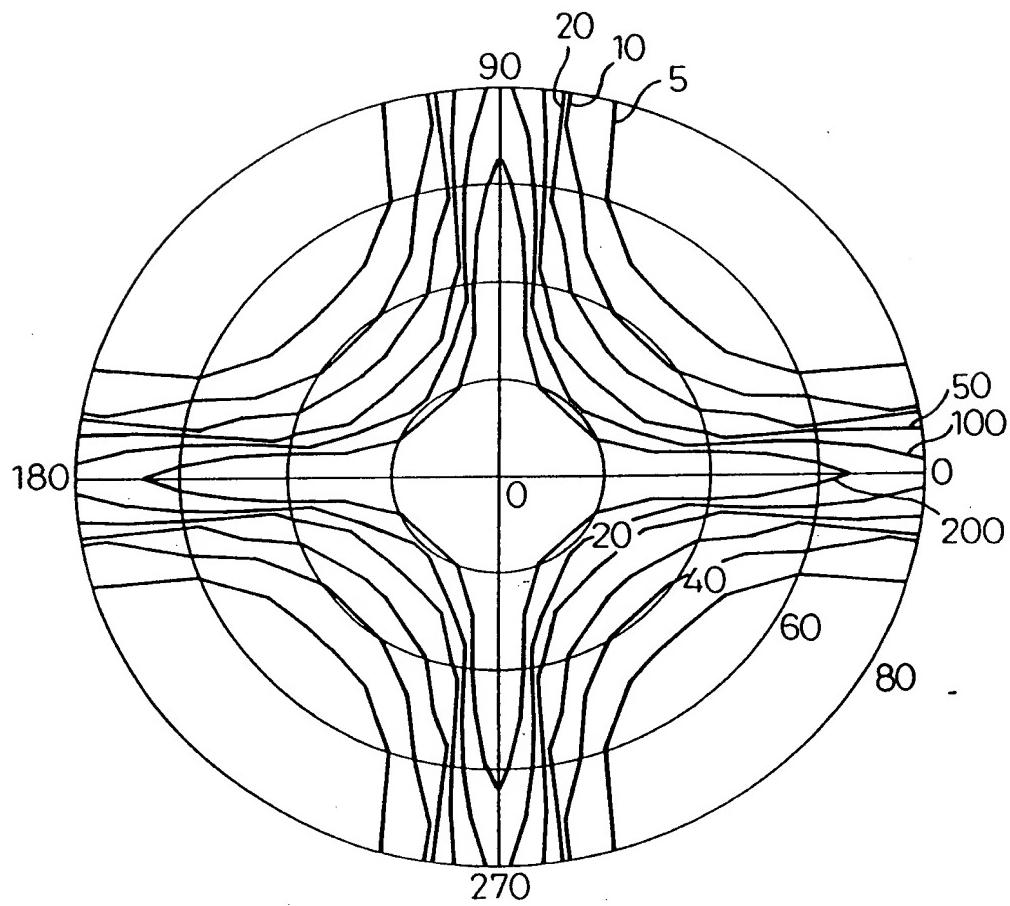
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Fig.213



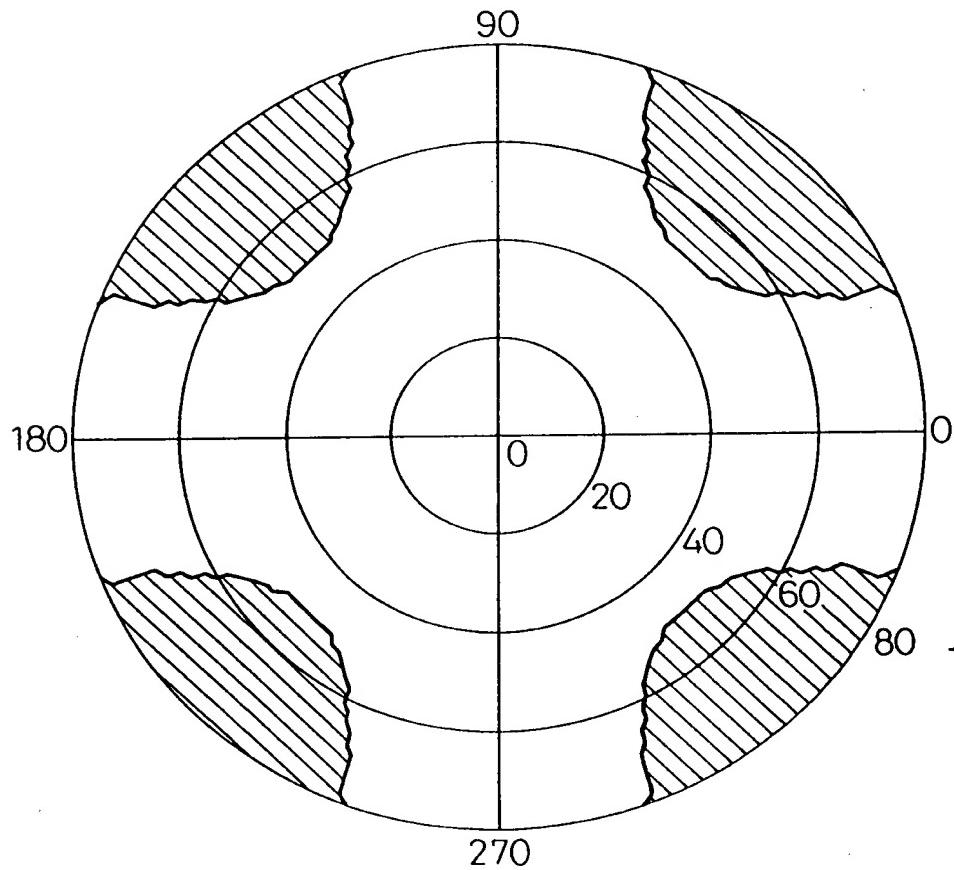
205 /
246

Fig. 214



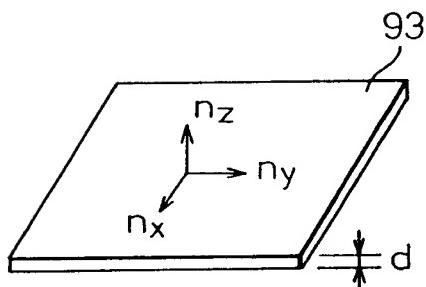
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Fig. 215



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Fig. 216



GENERAL CONDITION

$$n_x, n_y \geq n_z$$

POSITIVE UNIAXIAL FILM

$$n_x > n_y = n_z$$

NEGATIVE UNIAXIAL FILM

$$n_x = n_y > n_z$$

BIAXIAL FILM
(A PHASE LAG AXIS IS X DIRECTION.)

$$n_x > n_y > n_z$$

RETARDATION IN
INPLANE DIRECTIONS

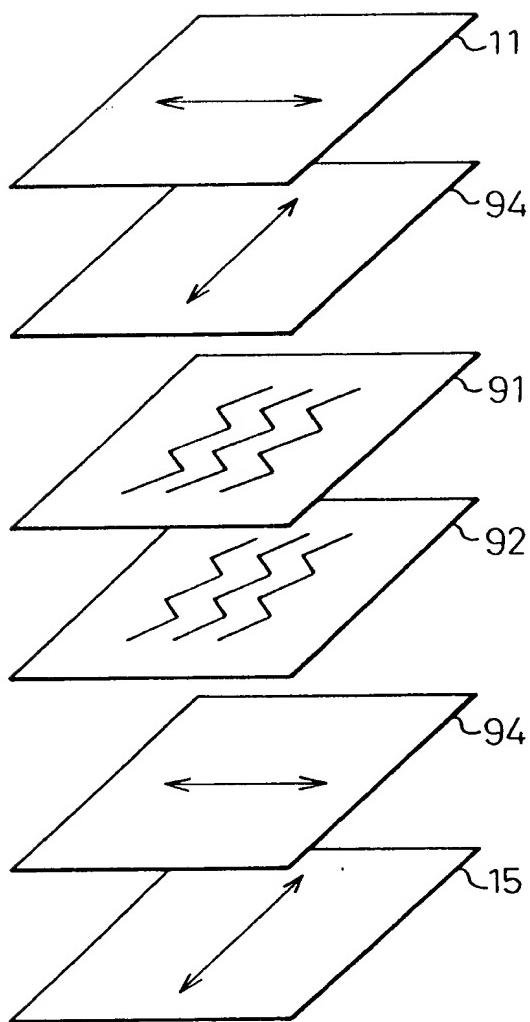
$$R = (n_x - n_y)d$$

RETARDATION OF
THICKNESS DIRECTION

$$R = \left(\frac{n_x + n_y}{2} - n_z \right) d$$

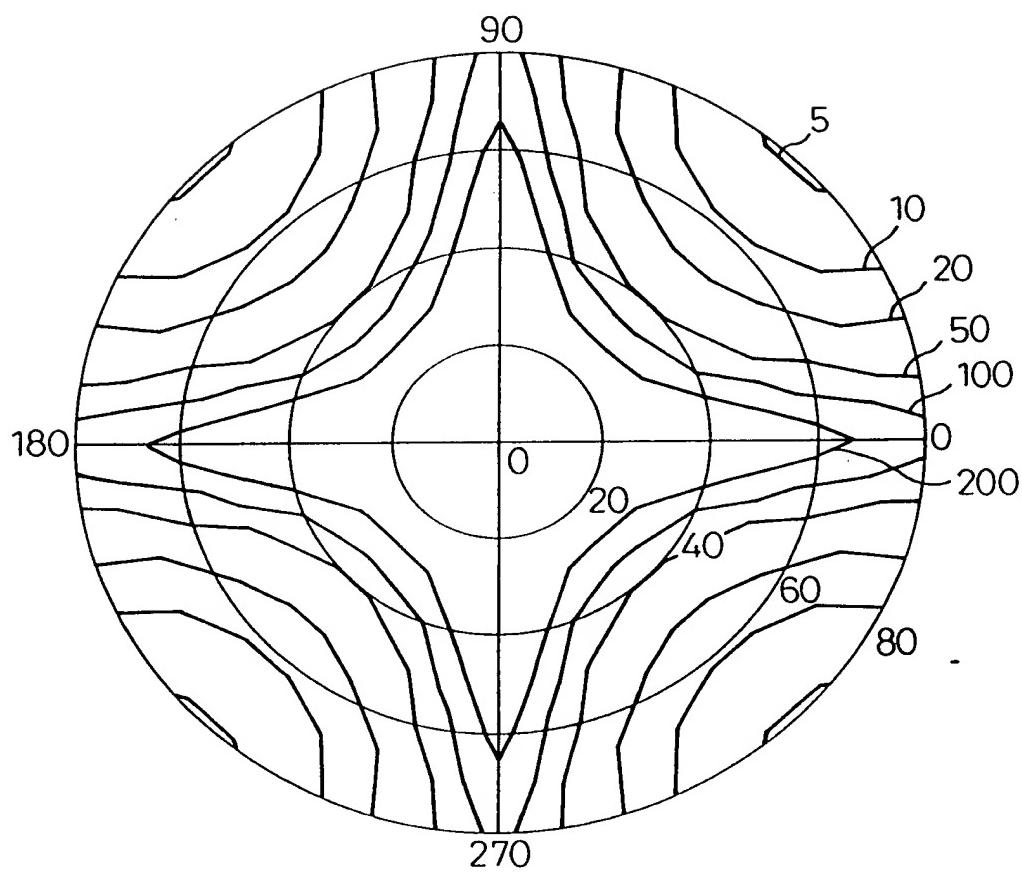
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Fig. 217



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Fig. 218



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Fig. 219

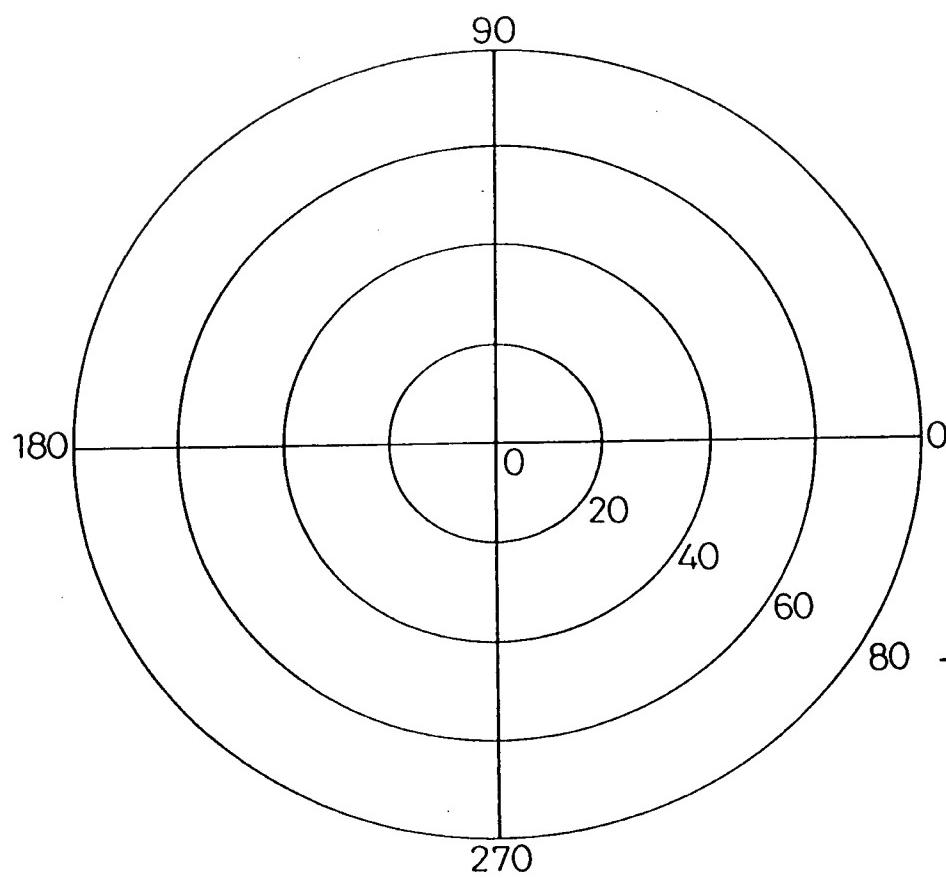
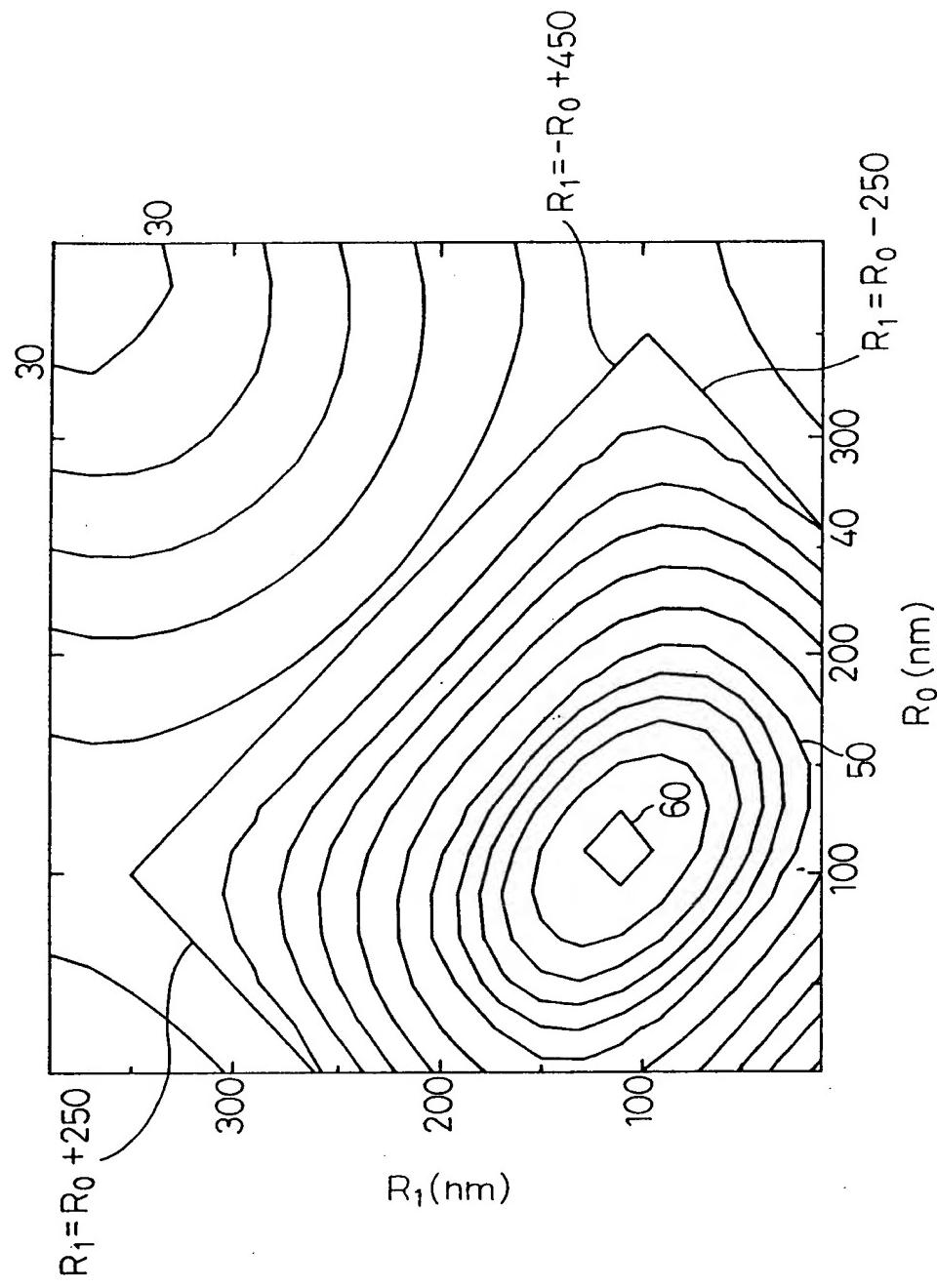
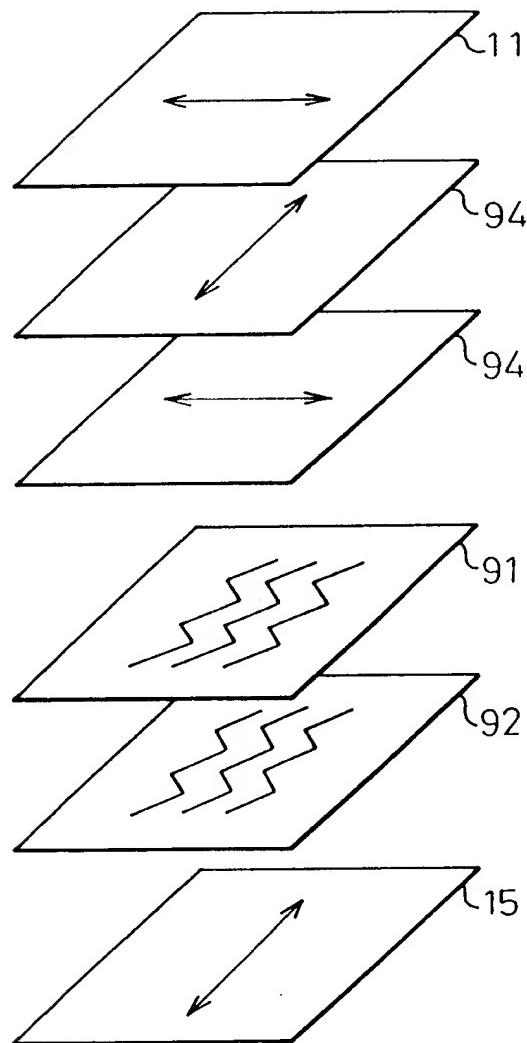


Fig . 220



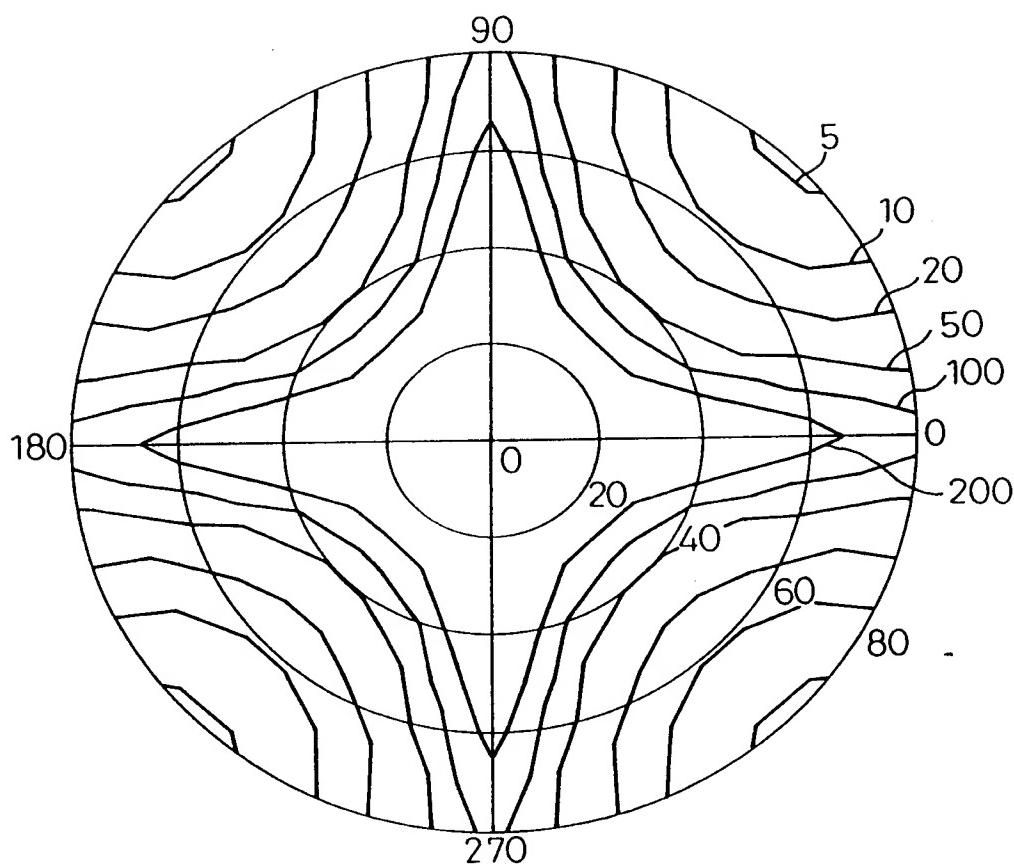
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Fig. 221



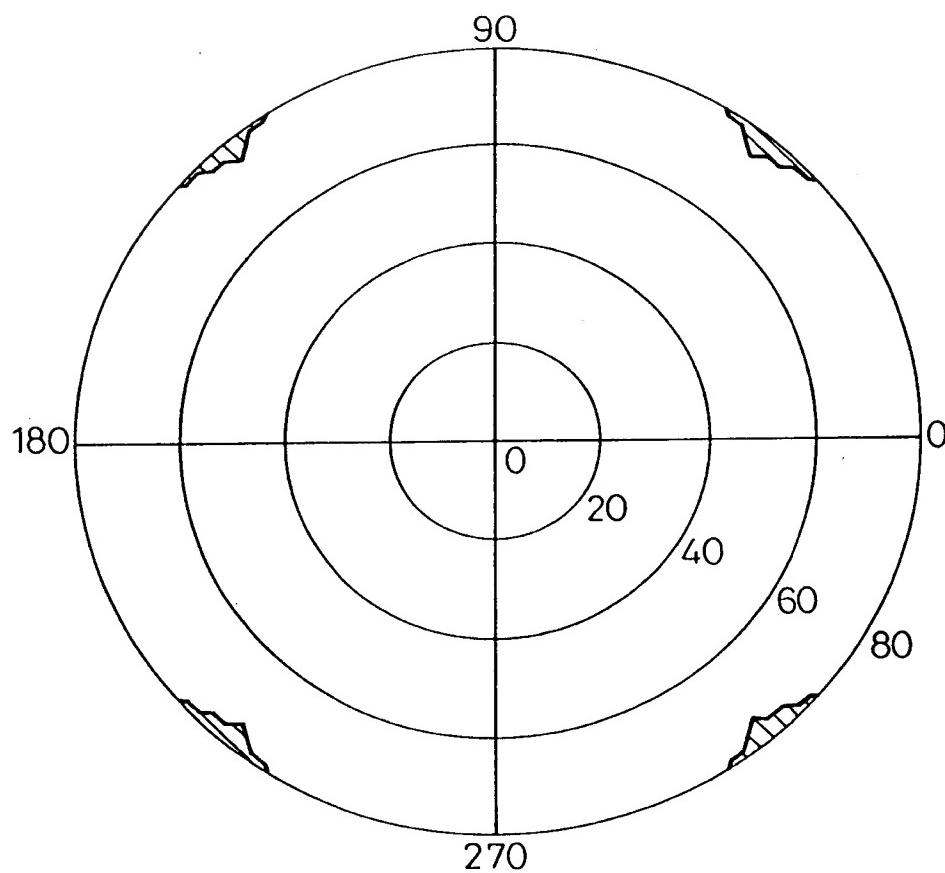
213/246

Fig. 222



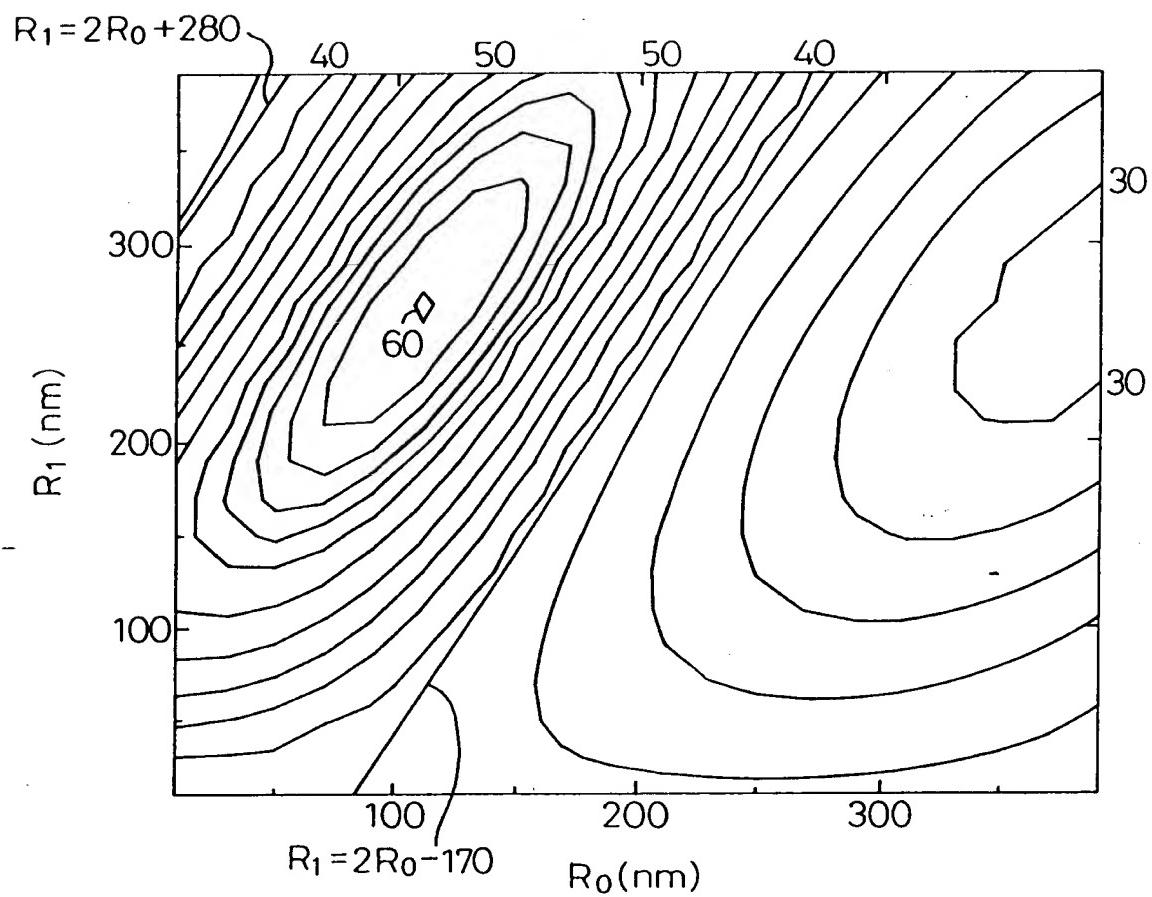
214/
246

Fig. 223



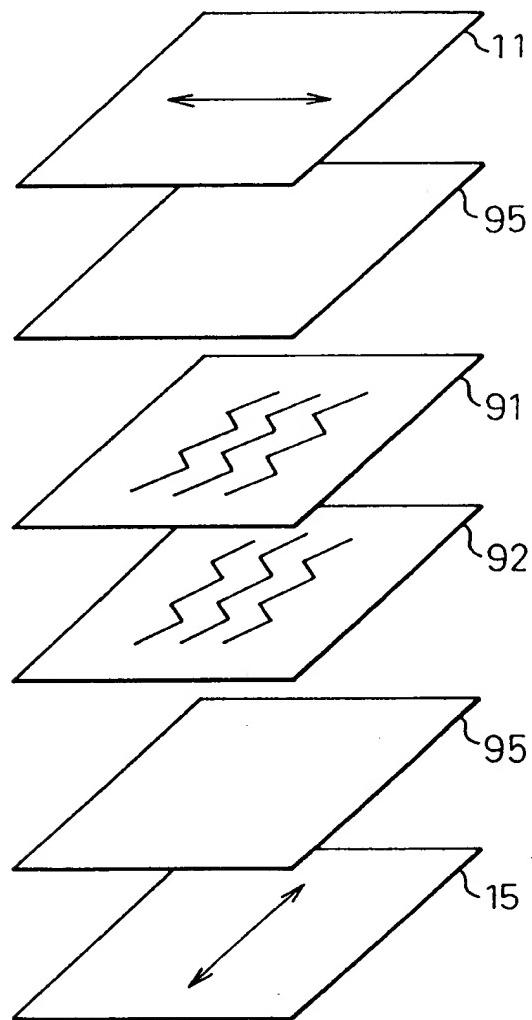
215/246

Fig. 224



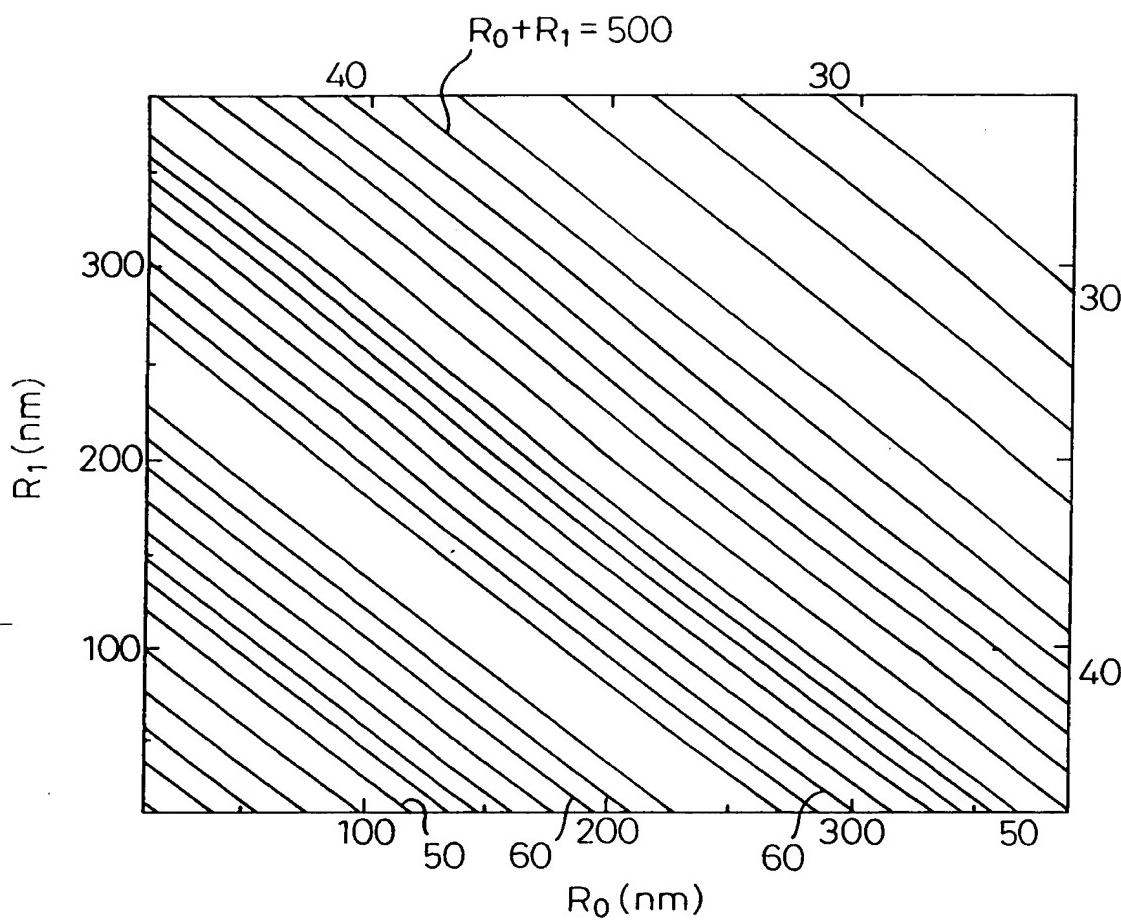
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Fig. 225



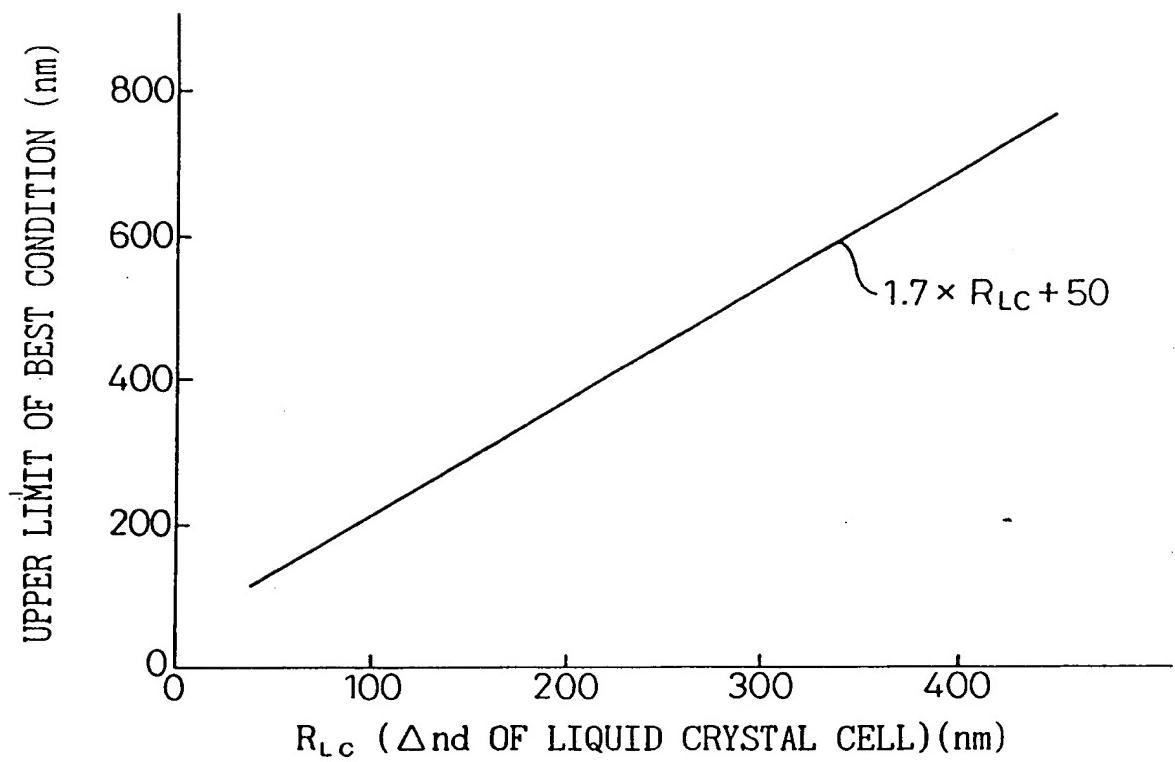
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Fig. 226



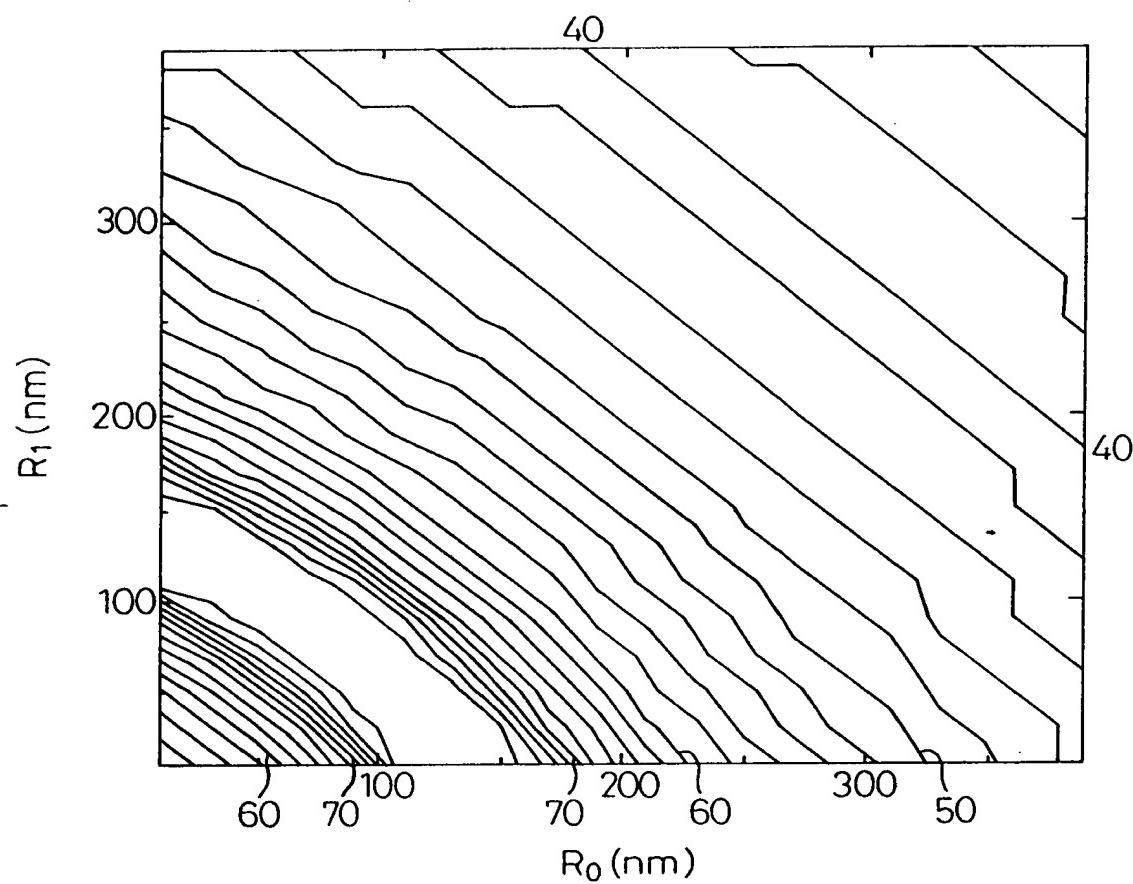
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Fig. 227



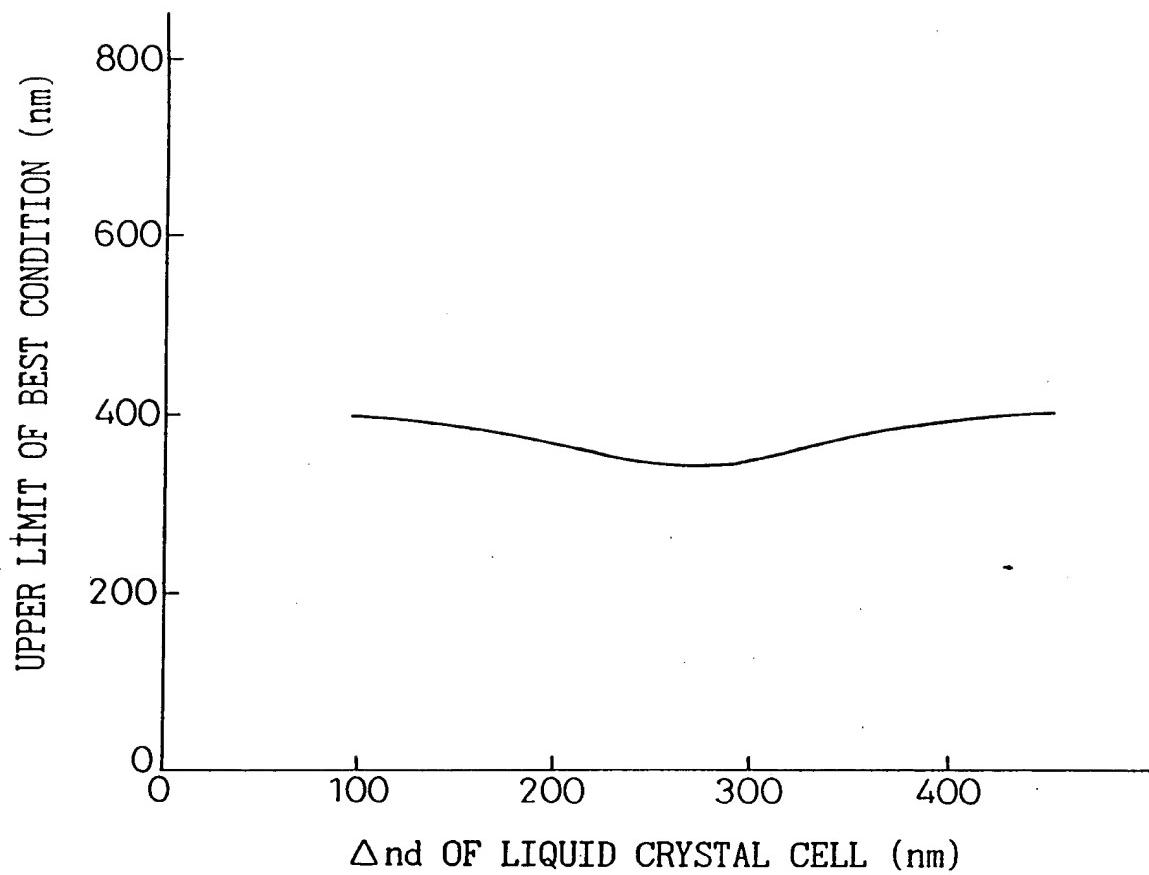
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Fig. 228



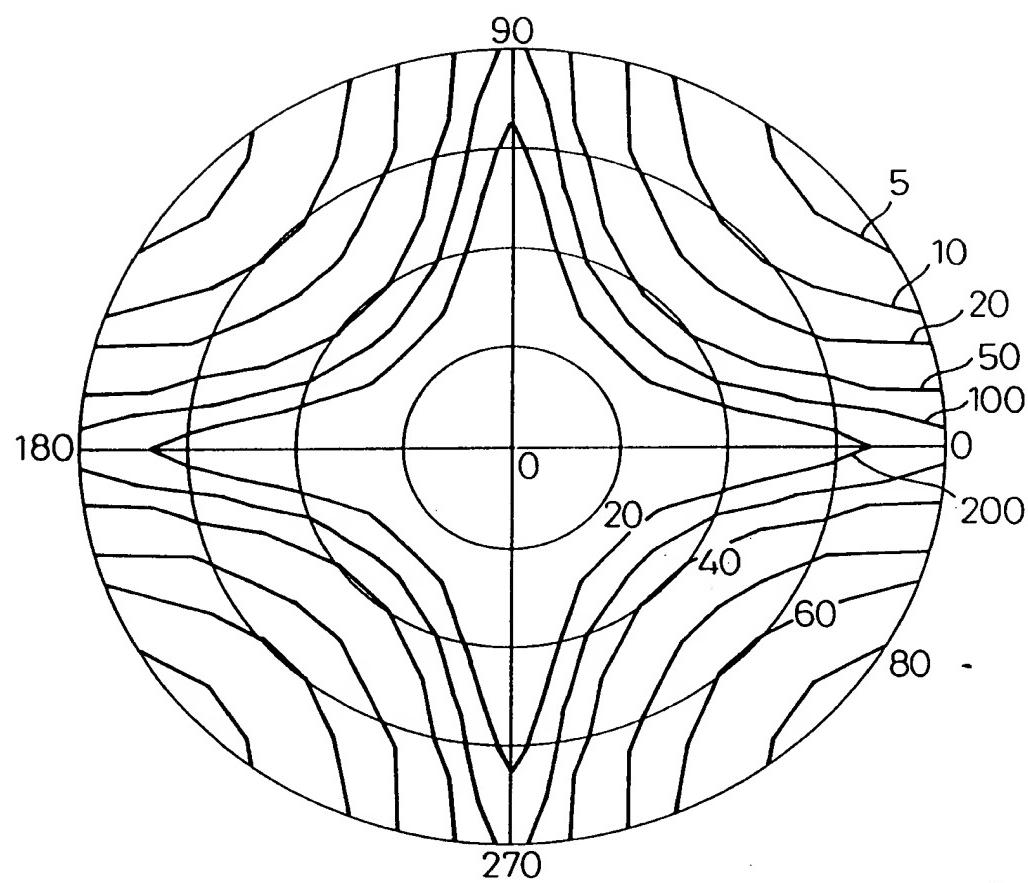
220 /
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Fig. 229



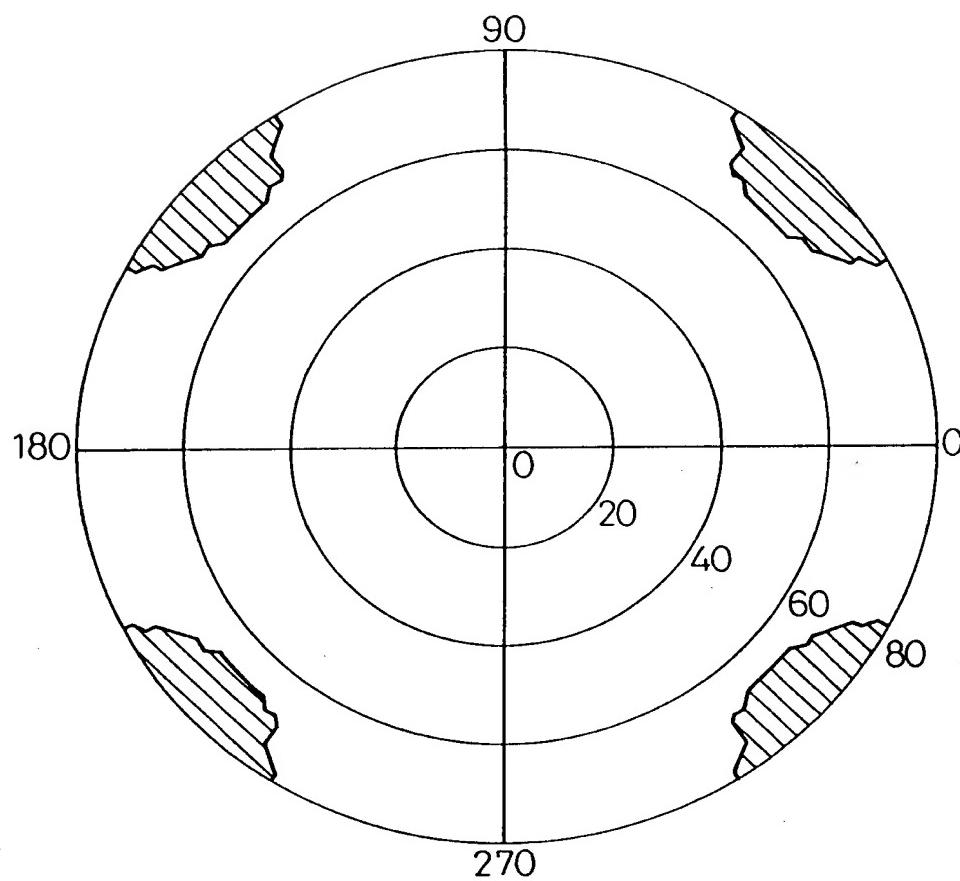
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Fig. 230



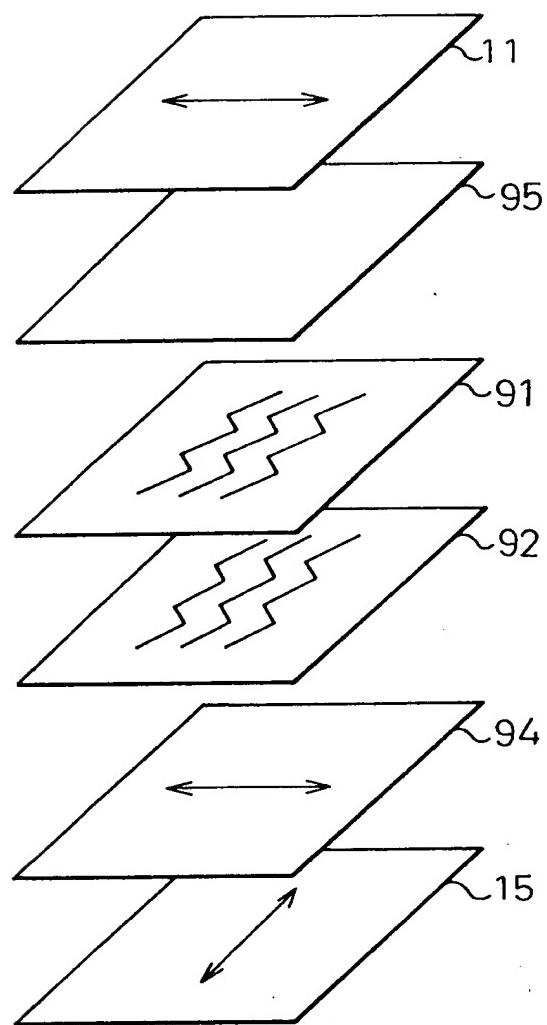
222/246

Fig. 231



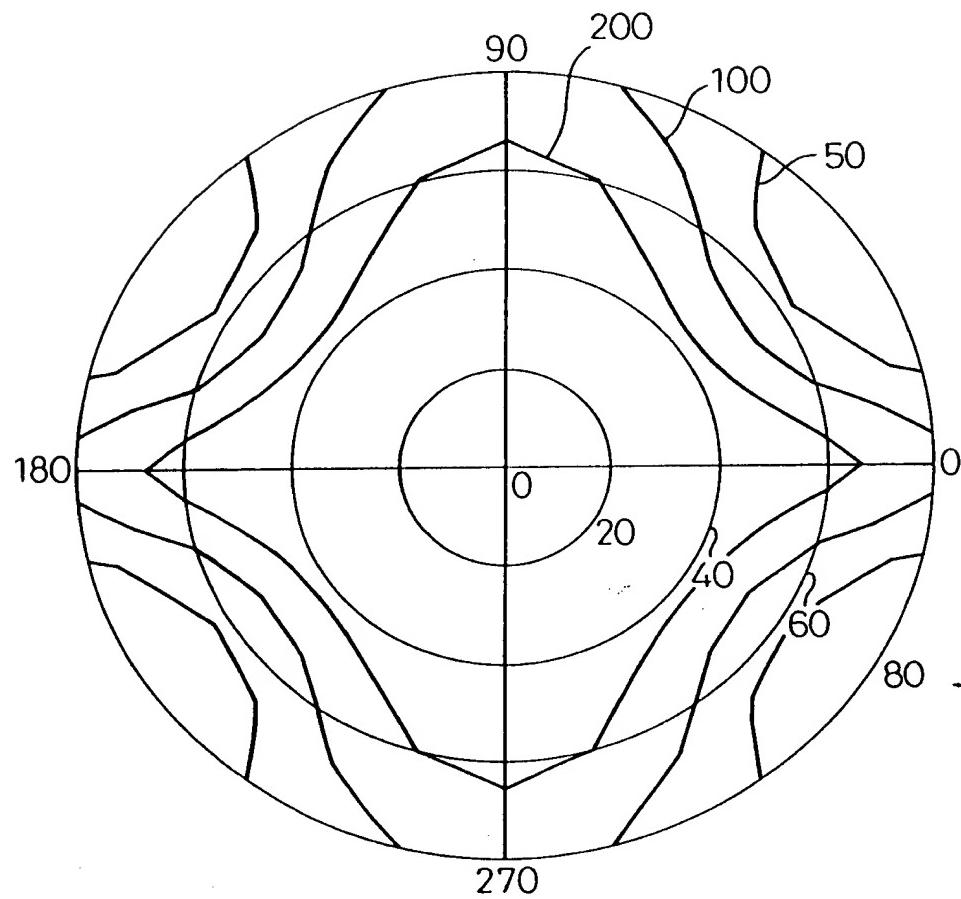
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Fig. 232



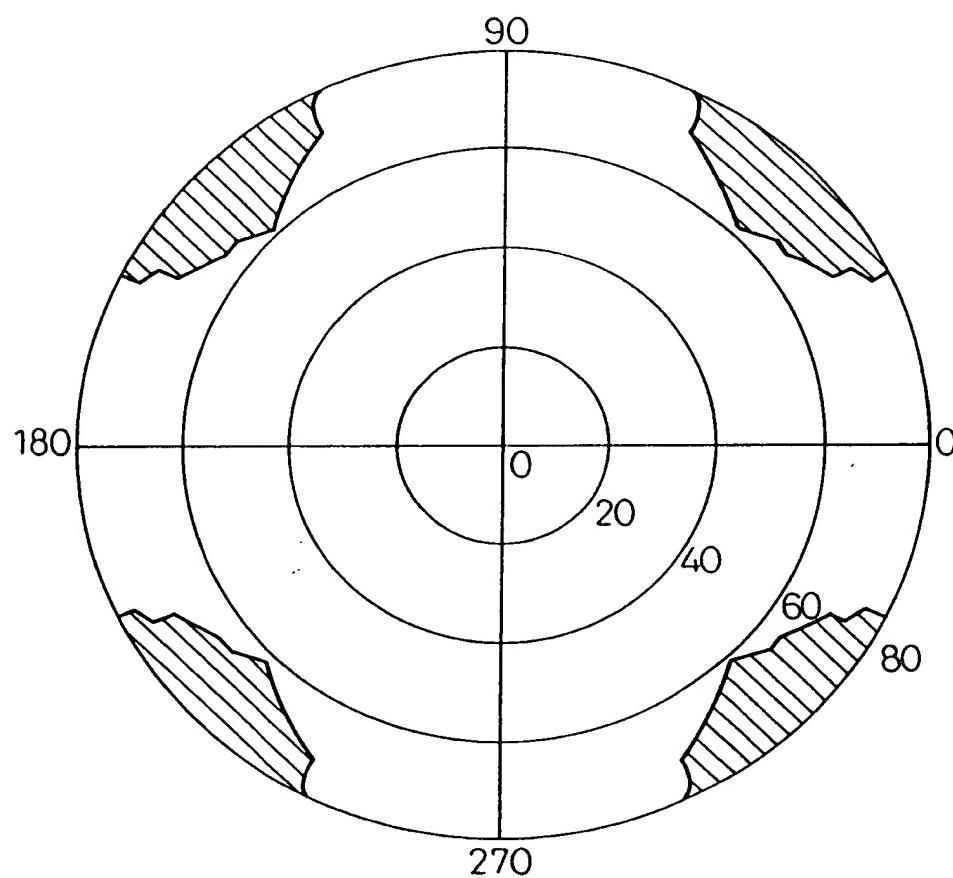
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246

Fig. 233



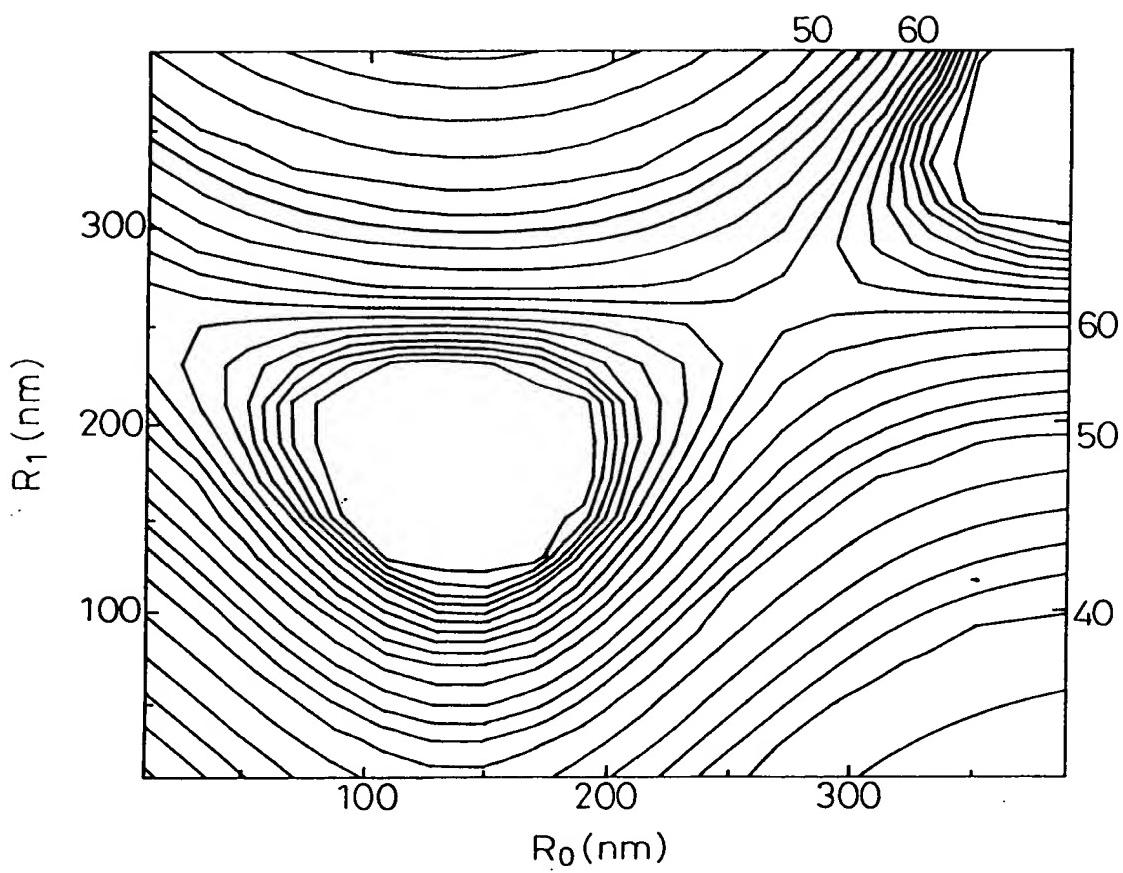
225 / 246

Fig. 234



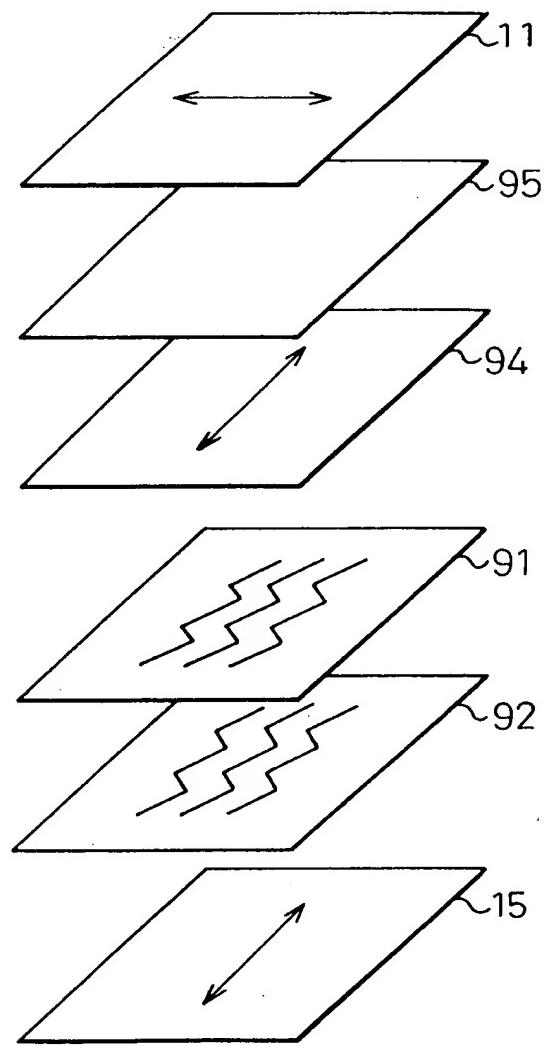
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Fig. 235



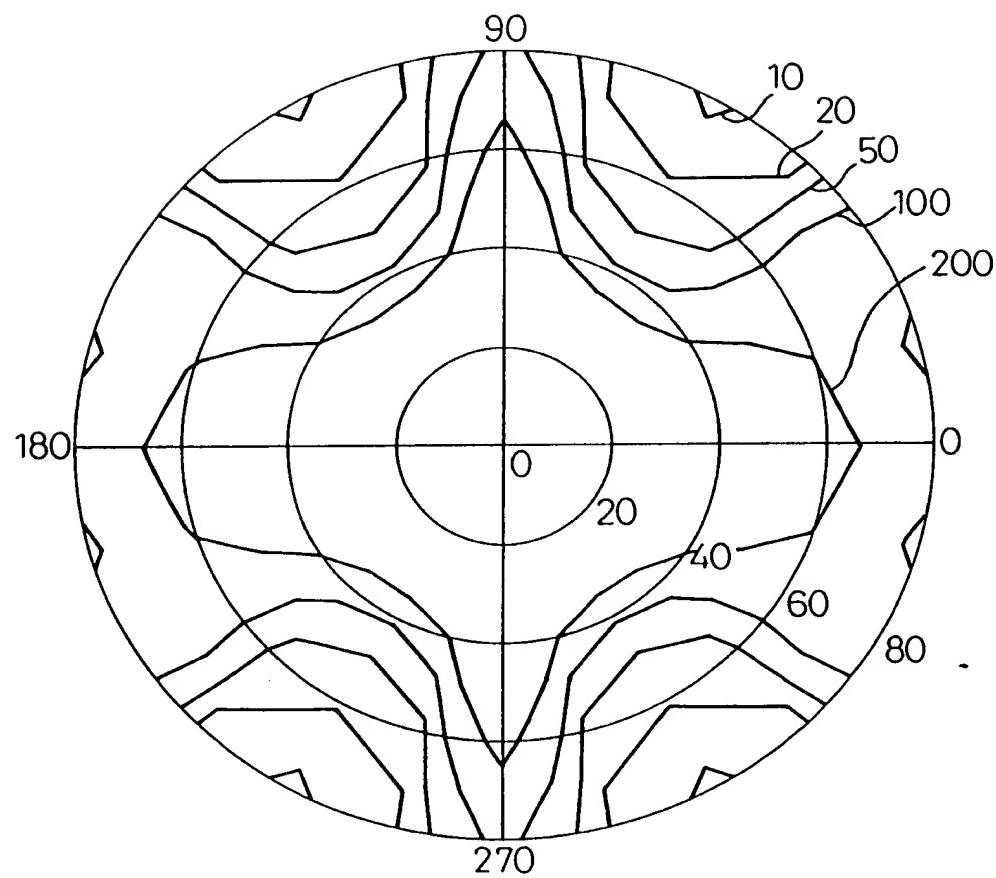
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Fig. 236



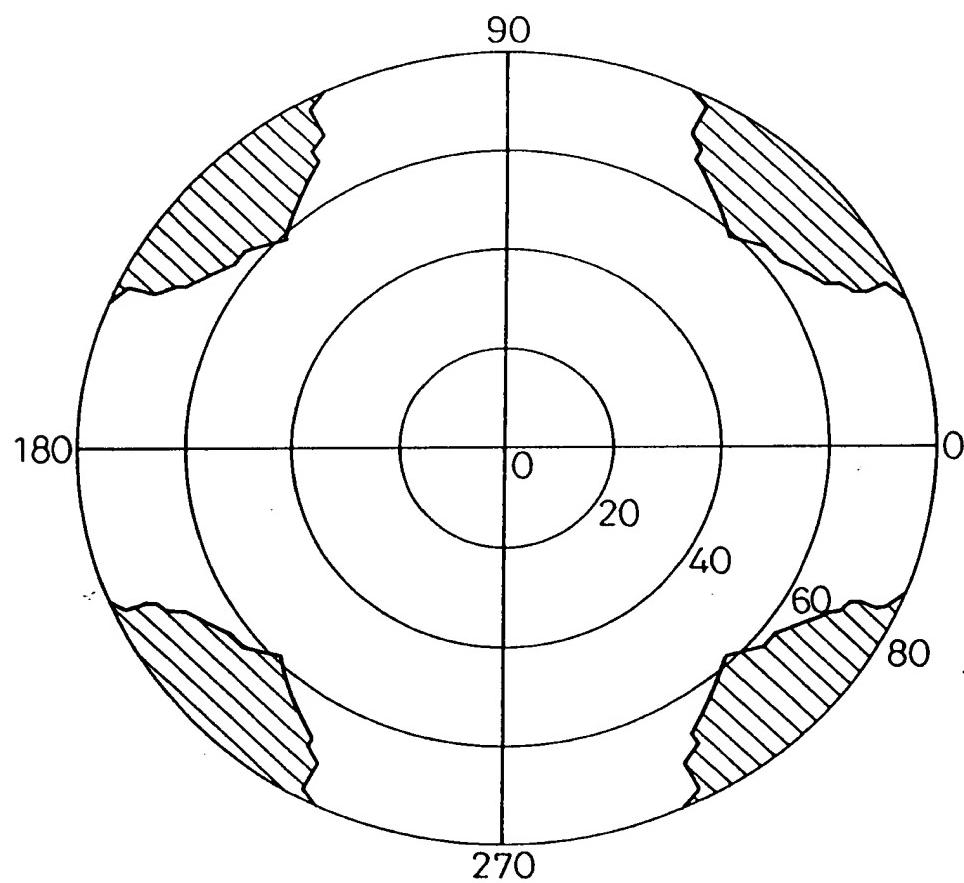
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Fig. 237



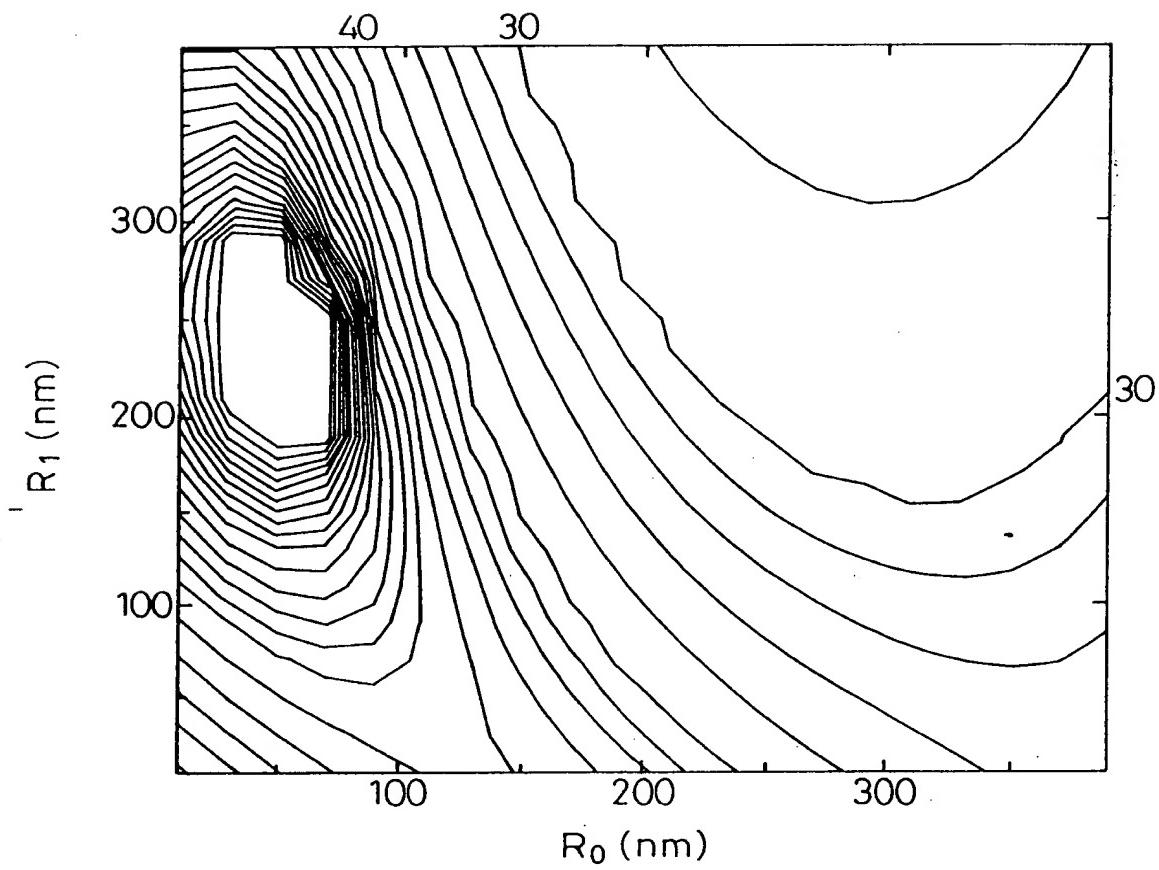
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Fig. 238



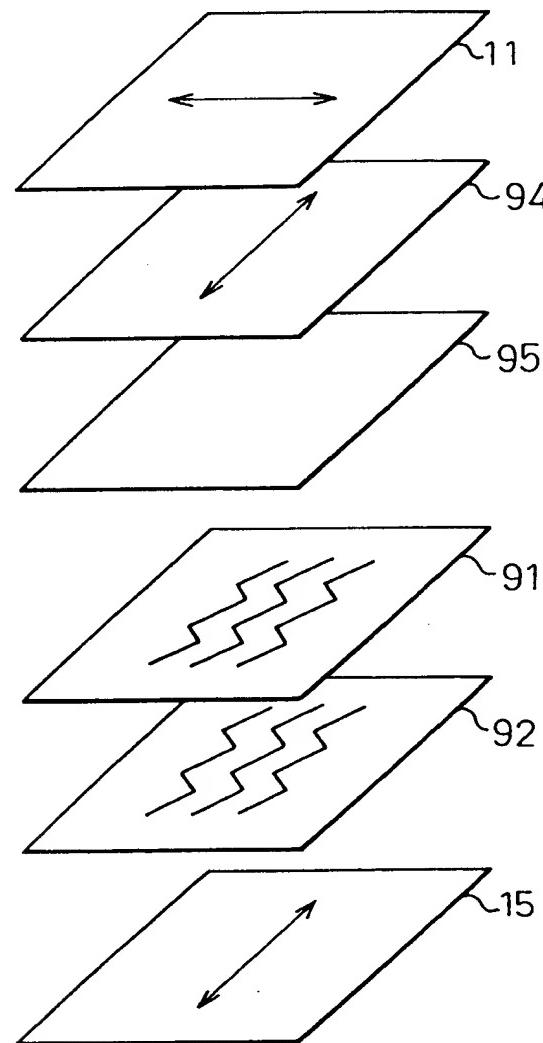
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246

Fig. 239



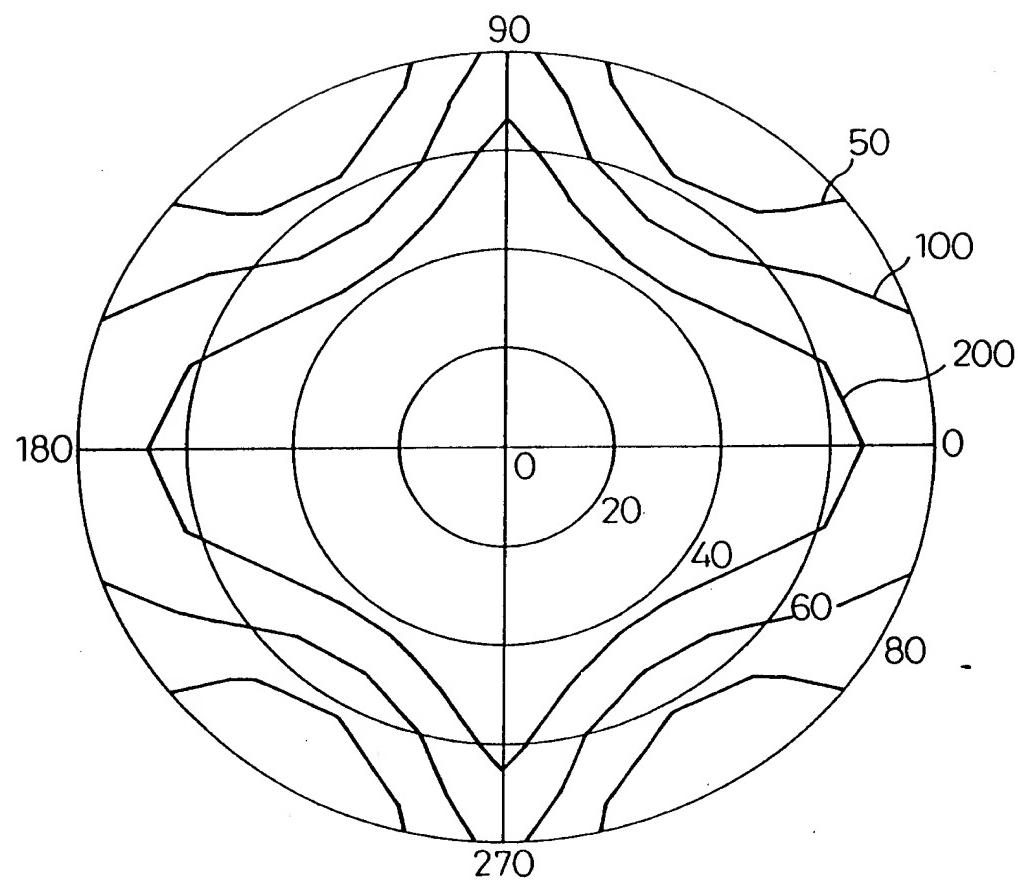
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246

Fig. 240



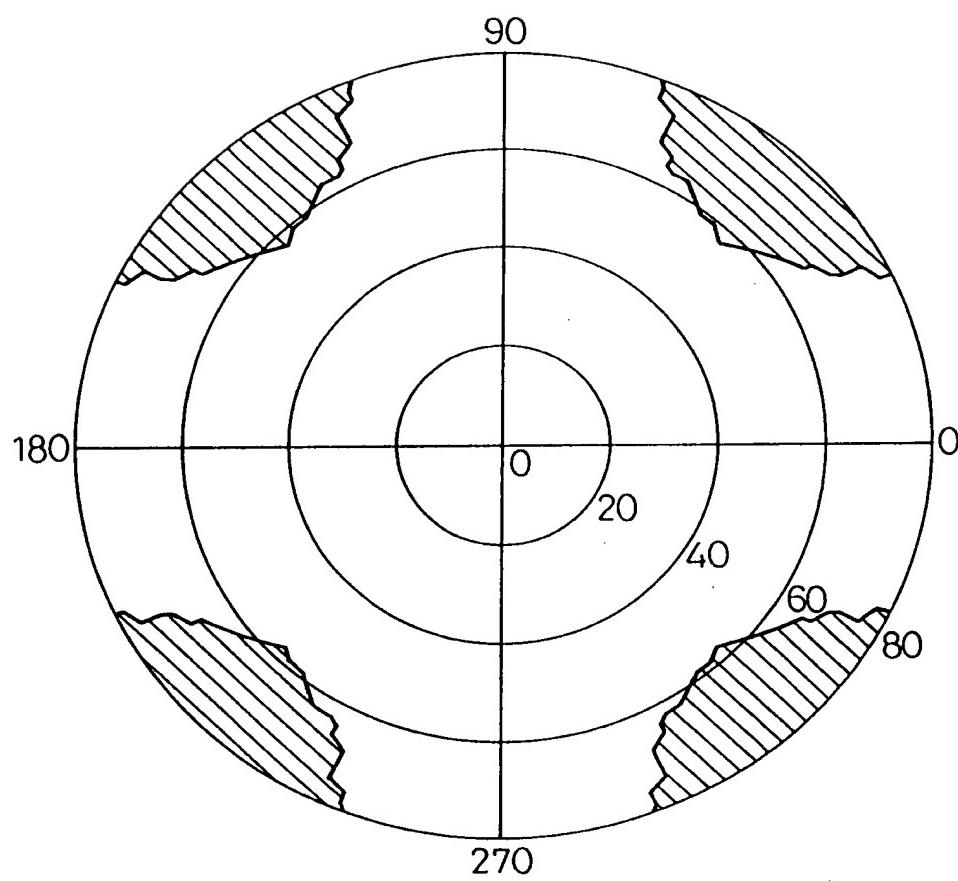
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Fig. 241



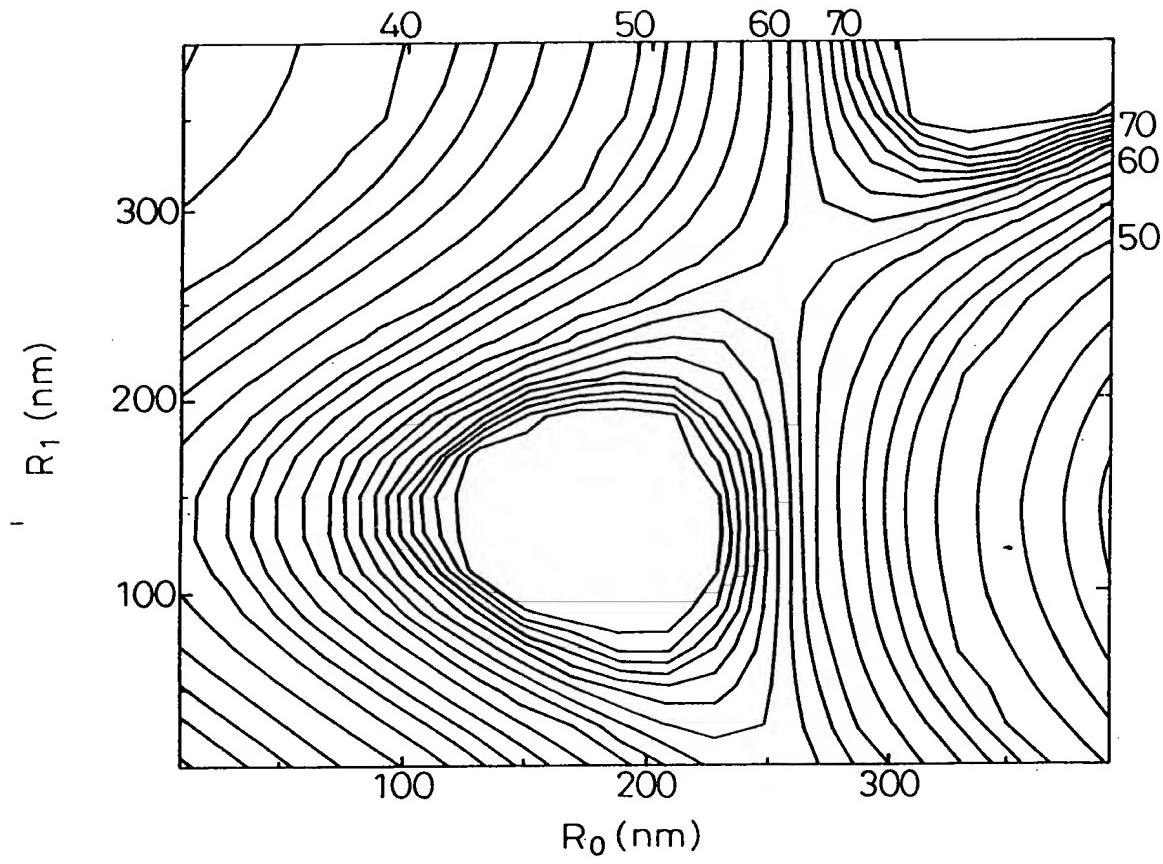
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Fig. 242



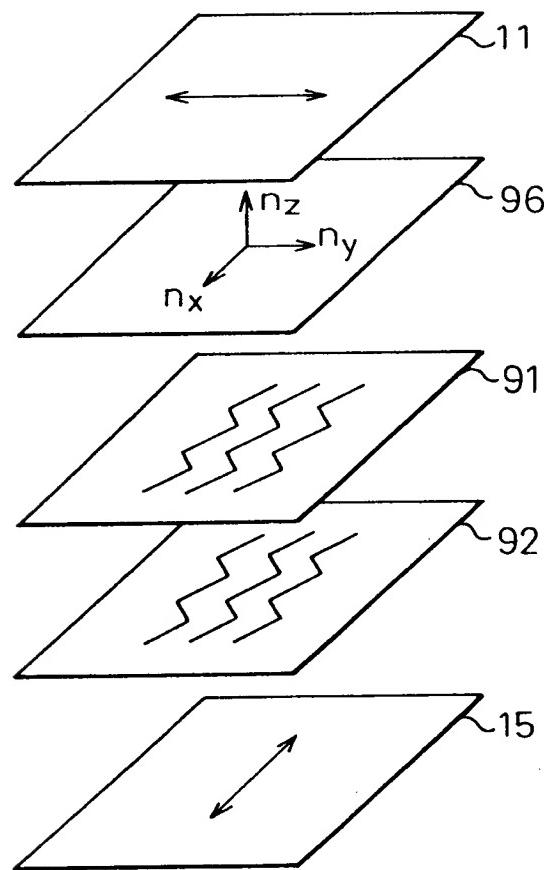
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Fig. 243



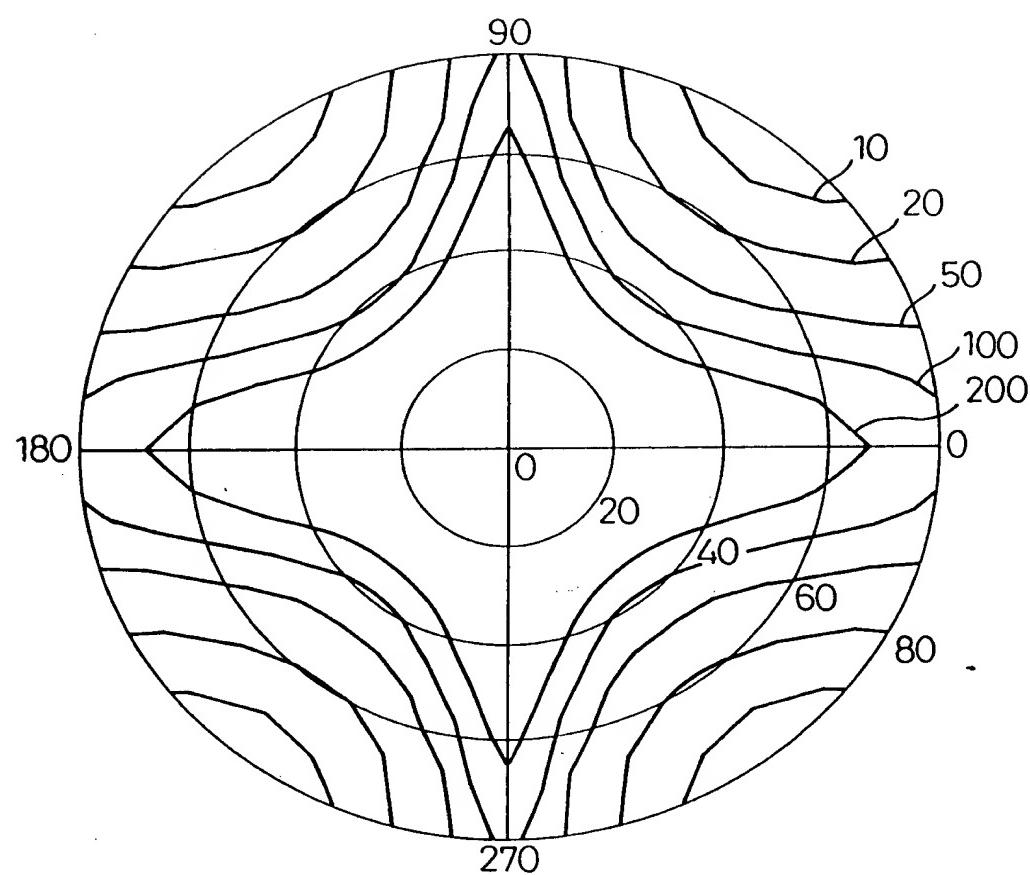
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Fig. 244



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Fig. 245



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Fig. 246

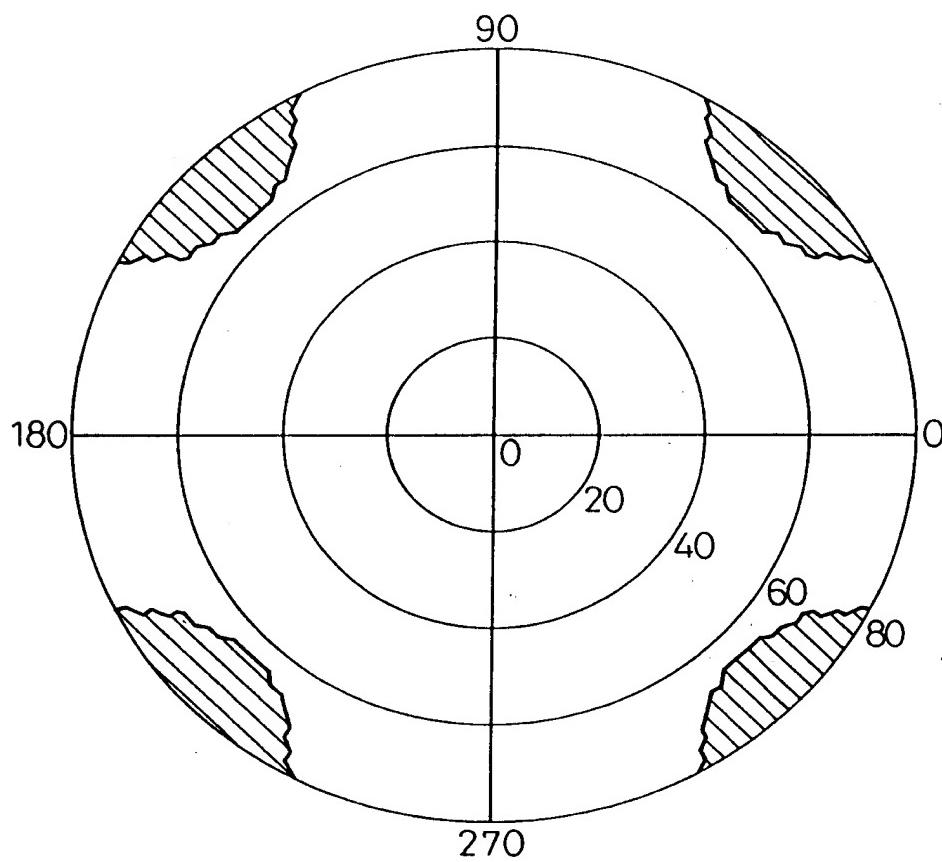
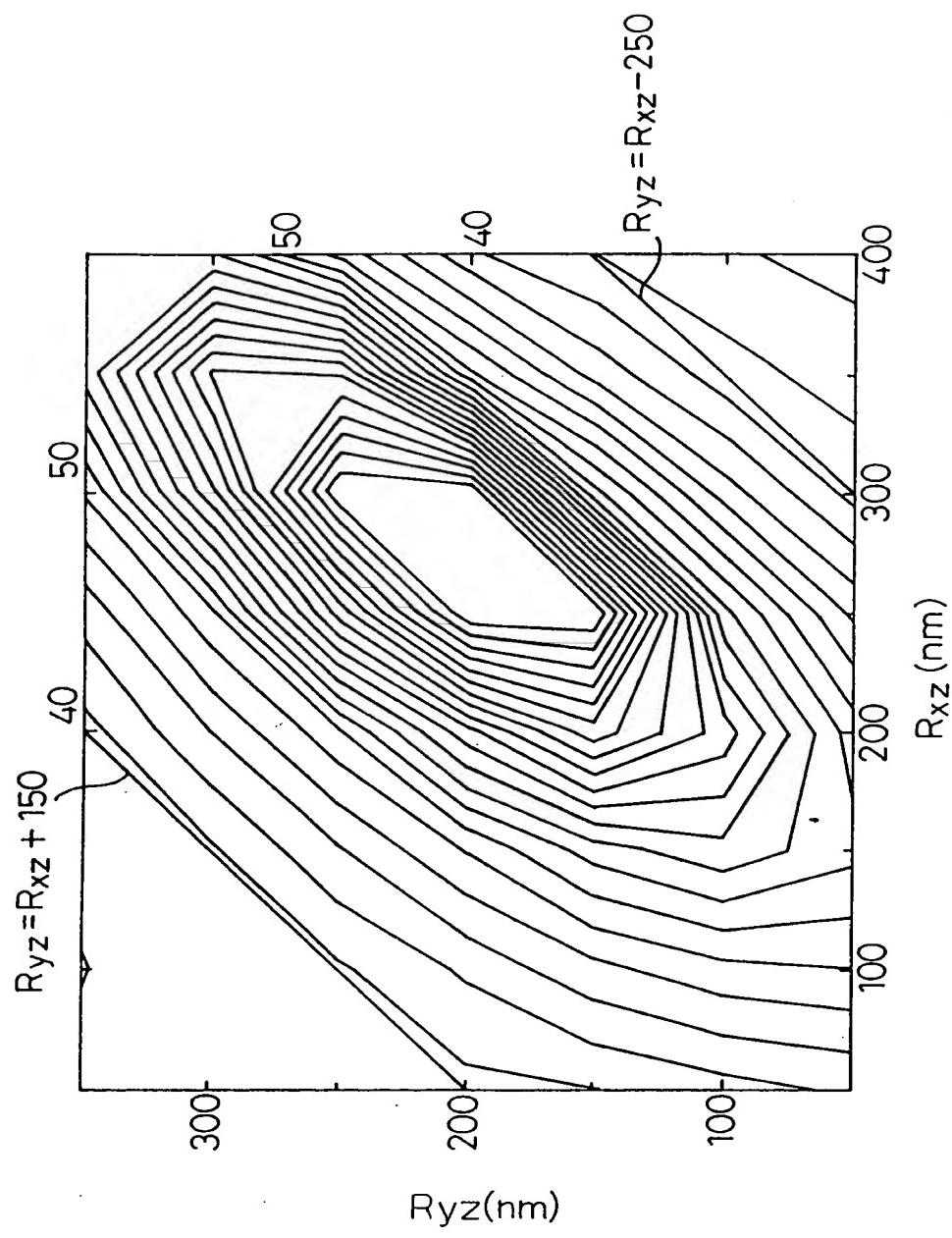
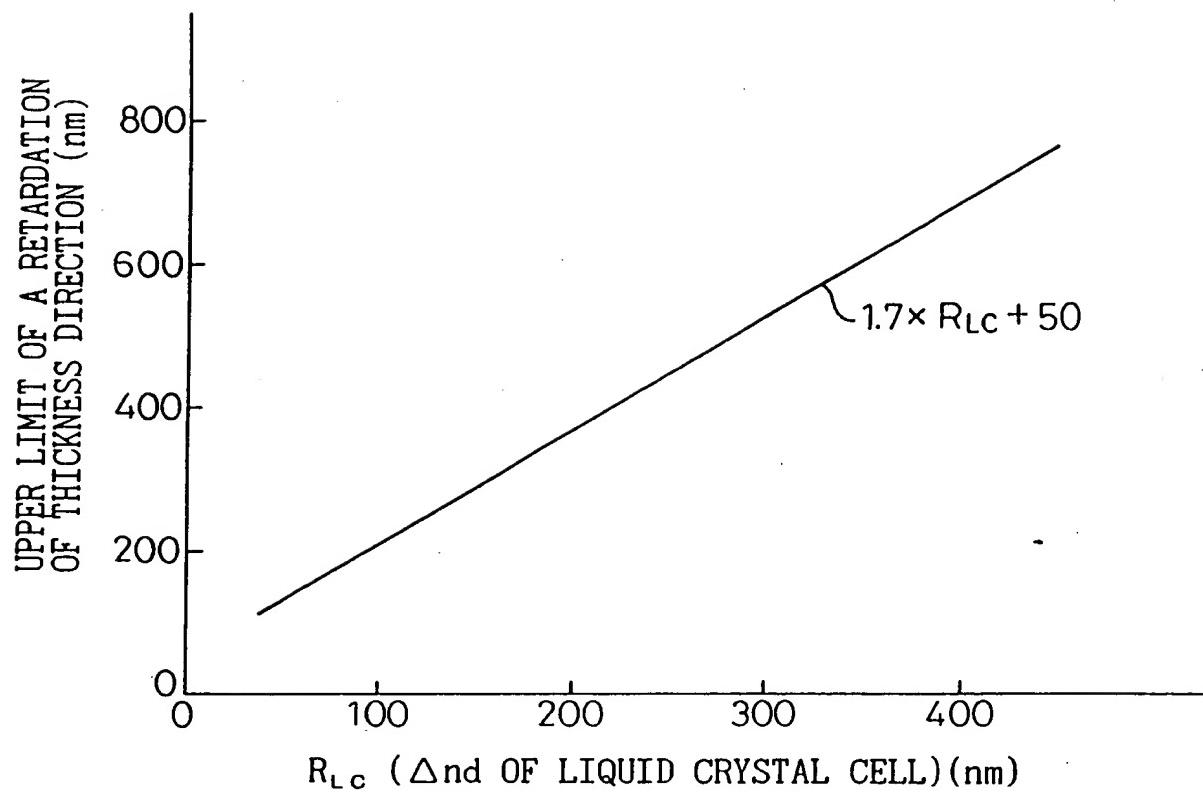


Fig. 247



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Fig. 248



~~240~~
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Fig. 249

SAMPLE	THICKNESS OF A PANEL (μm)			GAP BETWEEN PROJECTIONS (μm)			PHASE DIFFERENCE FILM	TRANSMITTANCE (%) (5V)	VIEW ANGLE : CR >10 LEFT-RIGHT DIRECTION	COLOR DIFFERENCE (5V: LEFT -RIGHT) $\Delta u(x)$ $\Delta v(Y)$	
	R	G	B	R	G	B				$\Delta u(x)$	$\Delta v(Y)$
EMBODIMENT A	5.7, 4.6, 3.6	20, 25, 30		320				5.60	$\pm 80^\circ$	0.03	0.03
EMBODIMENT B	5.7, 4.6, 3.6	20, 25, 30		320				5.60	$\pm 80^\circ$	0.03	0.05
PRIOR ART ₁	R, G, B=3.6	R, G, B=30		240				4.50	$\pm 80^\circ$	0.06	0.05
PRIOR ART ₂	R, G, B=4.6	R, G, B=30		320				5.80	$\pm 80^\circ$	0.14	0.12

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Fig. 250

EXAMPLES	INITIAL VALUES	AFTER 200 HOURS
EMBODIMENT C	25	42
EMBODIMENT D	33	51
EMBODIMENT E	26	45
EMBODIMENT F	30	48
REFERENCE	32	70

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Fig. 251A

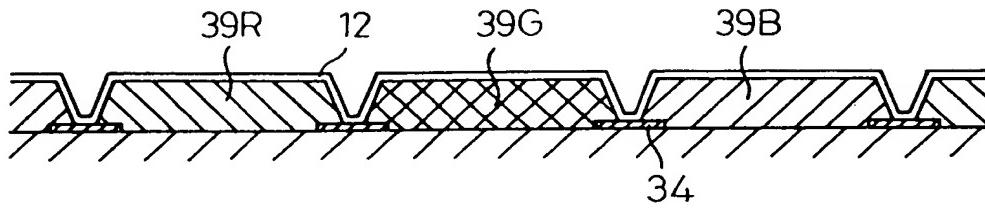


Fig. 251B

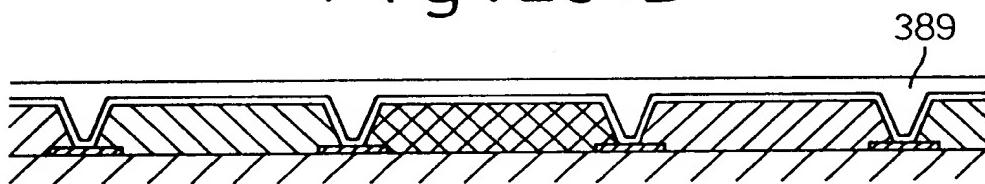


Fig. 251C

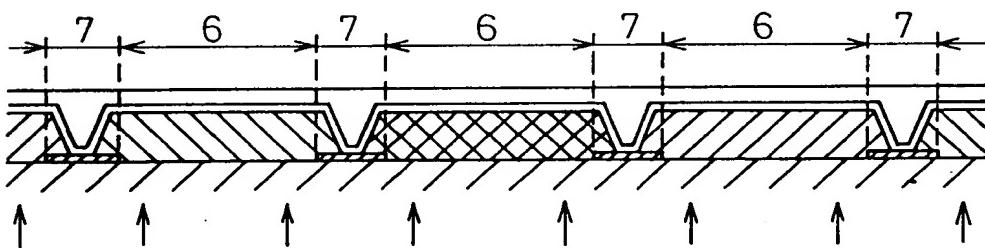
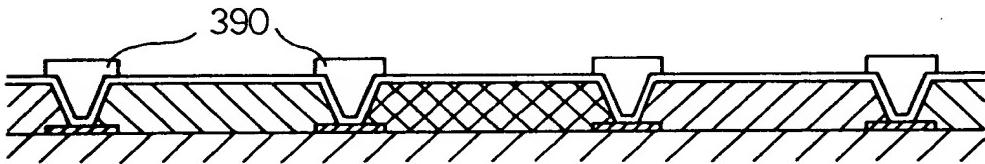


Fig. 251D



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Fig. 252A

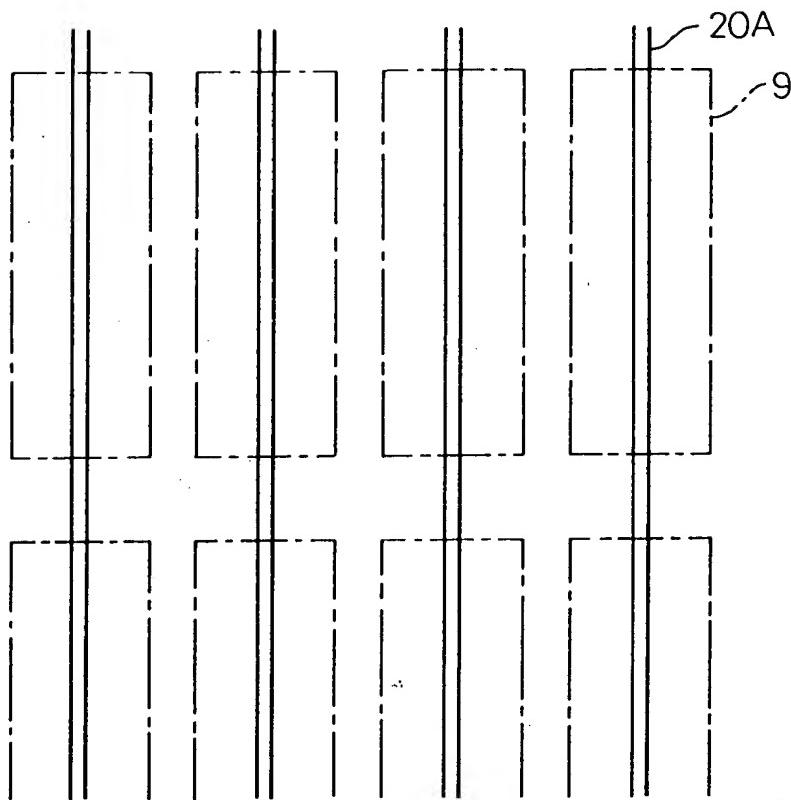
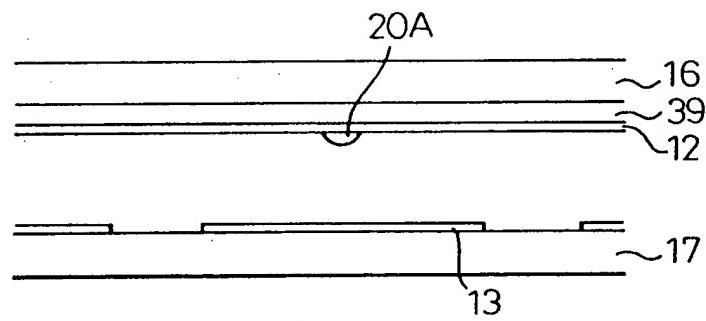
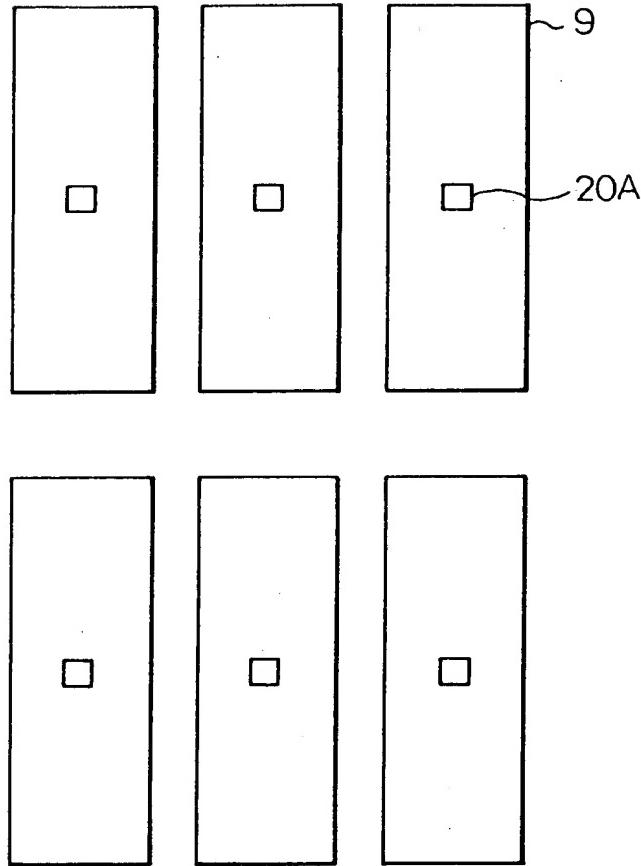


Fig. 252B



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Fig. 253



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Fig. 254 A

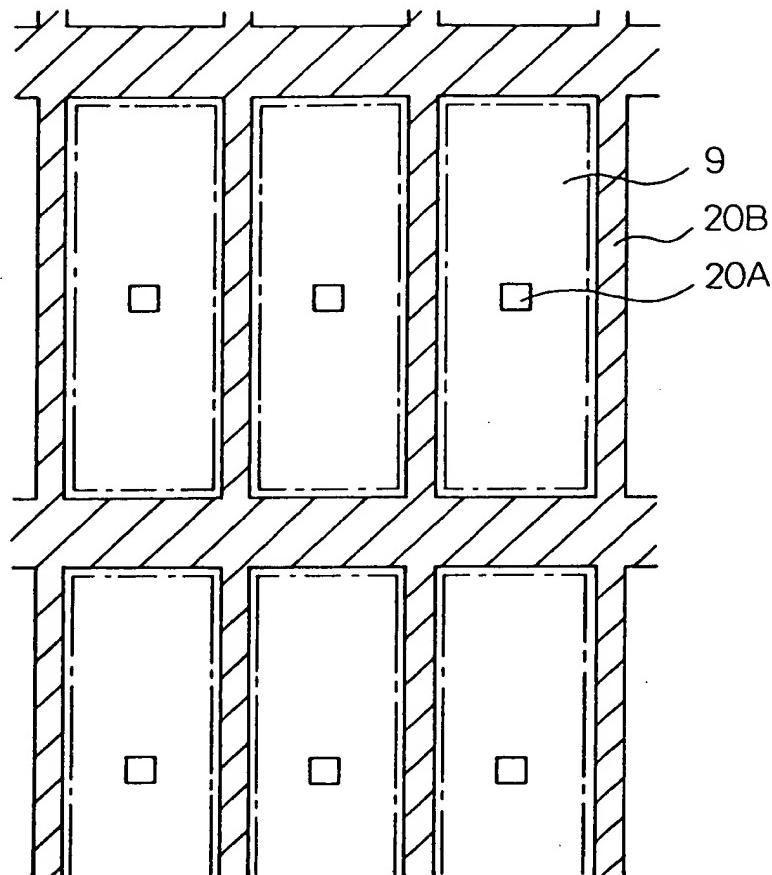
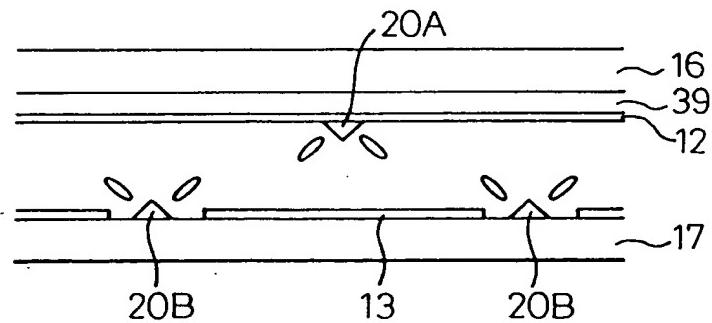


Fig. 254 B



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Fig. 255

